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LULA COOPER COFFEY
(1908-1999)

AND

BEN BERRY COFFEY, JR.
(1904-1993)

by
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Memphis, TN

Lula Coffey died peacefully in her sleep on May 13, 1999 in Memphis. So passed into history the surviving partner of a truly remarkable and beautiful marriage. Ben and Lula were a perfect match of wonderfully adventurous spirits possessed with singular vision and dedication. Yet, they remained totally unique individuals. Their long life together led them in many directions--across jungles and mountains, through barrios and art museums, and down the byways of the mid-South. Always learning and always teaching, they touched and changed the course of many lives that crossed their paths.

Ben B. Coffey Jr. was born April 28, 1904 and died August 22, 1993. In his teens, Scouting introduced Ben to bird study, which would grow into the driving force of his life. After studying at Vanderbilt and Armour Institute of Technology in Chicago for training as a fire-rating inspector, Ben returned to Nashville and joined the TOS. Transferred by his company to Memphis in 1928, he promptly began the exploration of the bird life of West Tennessee, and formed the Memphis Chapter in January 1930. He also met Lula that year -- and two and one-half months later they were married.

Lula Cooper, born September 20, 1908, was raised on a farm on the Tippah River, six miles north of Hickory Flat, Mississippi. Her childhood was filled with the outdoors, and she developed a love and appreciation for the natural world. After finishing high school, Lula came to Memphis and began working for Western Union. A self-described "flapper and great dancer," she met her perfect complement in the reserved and cultured Ben. Their marriage of 63 years was a mutual admiration society of two people passionately in love with life and with each other.

Ben served the TOS as president from 1932 to 1934, and as editor of *The Migrant* from 1938 to 1942. He was also President of the Memphis Chapter and its curator for 58 years. Ben's articles were published extensively in *The Migrant*, *Auk*, *Bird Banding* and other publications. He wrote a nature column for the *Memphis Evening Appeal*, and published the mimeographed *Mid-South Bird Notes* from 1952 to 1956 at his own expense.

The American Ornithologist's Union elected Ben a Fellow at the 1991 Annual Meeting, one of only a few amateurs ever to be so honored. Ben, a Life Member of TOS, was also a life member of AOU, Wilson Ornithological Society, The Nature Conservancy and The Wilderness Society, and held memberships in other ornithological and conservation societies throughout the mid-south. Both Ben and Lula were Field Associates in Ornithology and Bioacoustics at Florida State University, Florida State Museum.

Lula worked at Western Union until WWII, then, after briefly following Ben during his service in the Army, she returned to Memphis and spent 20 years at the Baker Seed Laboratory. She was a good student of botany, and became an expert in the field of grasses. The Doughty bird collection at the Memphis Brooks Museum of Art piqued her interest. Becoming more involved, in 1966 she quit Baker and enrolled in training to become a docent at the Brooks. Her enthusiasm was contagious and her ability to communicate with groups from aged 6 to 96 made her one of the museum's most popular docents. She was named Brooks Volunteer of the Year in 1982. She and Ben endowed a room at the Brooks. Lula presented a sculpture, "Head of Christ," in Ben's memory.

A Life Member of the TOS, Lula served as president of the Memphis Chapter, and became the first woman to serve as president of the TOS, from 1949 to 1951. She spoke to hundreds of groups, and was probably better known in the Memphis area than Ben. She was a charter life member of the Arkansas Audubon Society, Mississippi Ornithological Society and The Nature Conservancy. The DAR awarded her the Conservation Medal in 1998.

Pioneering fieldwork by Ben and Lula brought them national attention. In the early 1930s Ben Coffey organized a Chimney Swift banding project in Memphis to help in the search for the wintering grounds of the Chimney Swift. The project spanned nearly two decades, during which Chapter members and Scouts banded 113,000 Swifts. When at last the first thirteen bands were recovered in the Amazon basin of Peru, five had been placed at the Coffey's banding sta-

tions. Banding of 16,000 herons and egrets in the mid-South established the migration route for several species. Ben and Lula's recording of neo-tropical birdcalls brought them international acclaim. They had made annual trips to Mexico since the end of WWII. Ben began taping birdcalls in 1964 with a reel-to-reel recorder. In 1968, after retirement, he and Lula expanded their area of study to include Central and South America. Their efforts produced some of the earliest and most complete recordings of many species. Their work helped spur interest in preservation of native bird life in several Latin American countries. Most of the recordings are now found in the Coffey Neotropical Collection at the Florida State Museum.

Closer to home, the Coffeys meticulously recorded and chronicled bird data for West Tennessee and the Mid-South for more than 60 years. Ben participated in 232 Christmas Counts, Lula in 198. Their interests were not limited by state boundaries. For almost forty years, they documented the distribution of Whip-poor-wills and Chuck-will-widows from Mississippi to Oklahoma. Ben's records contain a wealth of data on mid-South birds and have formed the basis for several studies and publications. Even after Ben's death, Lula remained active in TOS, attending meetings, speaking and going on hikes while also increasing her work with the Brooks.

For almost seven decades the Coffeys were the heart and soul of Memphis TOS. Both were staunch supporters of TOS, and they never wavered or allowed petty differences within the Chapter or Society to interfere with their commitment. The Coffey's indefatigable fieldwork expanded the knowledge of birding as only a select company of other birders has done. Their leadership and knowledge expanded, enriched and sustained our Society. Recollections of Ben's wit and Lula's charm will forever bring a smile to our hearts. Their lives will remain an indelible memory for all those who had the good fortune to know them. Truly, their like will not pass our way again.

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Any other omissions, errors, or recent changes can be sent to the Editor of *The Migrant* for inclusion in a later issue.

The Migrant, 69(3): 118-123, 1998.

RESULTS OF A LONG-TERM SURVEY OF SHOREBIRD USE IN MEMPHIS, TENNESSEE

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Shorebird habitat management has become an important issue in avian conservation due to the loss of critical migratory habitat (Helmers 1992). Stopover sites play a crucial role in shorebird migration as "refueling" points during spring and fall (Skagen and Knopf 1993). Although the Mississippi River Valley is a commonly used route for migrating shorebirds (Reid et al. 1983), there is little published information on both the habitat use and migration chronology in this area. In particular, there is little information on shorebird use of stopover sites along the lower Mississippi Valley during both spring and fall migration. This information is needed to plan the best management strategies for shorebirds during the length of their migration.

This paper summarizes 13 years of shorebird surveys from the T.E. Maxson Wastewater Treatment Facility along the Mississippi River in Memphis, Tennessee. The surveys were completed by members of the Memphis Chapter of the Tennessee Ornithological Society beginning in 1982 and continuing through 1994. Long-term surveys at a particular site are uncommon, but they provide useful information regarding the average or typical movements of shorebirds on a yearly basis. This paper provides basic information on the timing of shorebird use of the lower Mississippi Alluvial Valley, and explores the potential for treatment plants to serve as stopover habitat for migrating shorebirds.

STUDY AREA AND METHODS

In 1990, the Environmental and Resource Technology (EARTH) Complex was opened by the City of Memphis for use as an area for solid and organic waste disposal as well as research (Waldron and Bean 1991). The entire 1822 hectare (ha) area is located adjacent to the Mississippi River south of Mem-

phis, Shelby County, Tennessee. The T.E. Maxson wastewater treatment plant is a facility that utilizes approximately 285 ha of the EARTH Complex for the disposal of sludge (Waldron and Bean 1991). The area consists of a variety of lagoons and drying fields used to treat effluent at different stages of the aerobic drying process. The mudflats created by the drying cells provide both the adult and larval Dipteran populations that shorebirds use as a food source during migration (Keller 1972, Neill and Kuban 1986, Augustin et al. in press). Although the amount of area available to shorebirds varied somewhat throughout the study period, as of 1994 there were approximately 73 ha available each year.

Surveys were conducted at irregular intervals starting in March (with the exception of 1982 and 1984 when they began in July) and continued into December from 1982 through 1994. The average number of surveys completed per year was 42 (ranging from 19 in 1984 to 62 in 1991; Table 1), and surveys were more frequently done during peak periods of both the fall and spring migration. Each of the lagoons with suitable shorebird habitat were surveyed with spotting scopes and all species and numbers were recorded. To determine patterns of use throughout the year, the sampling year was divided into 3 time periods during each month (which resulted in a 10- or 11-day period depending on the length of the month). All surveys completed during a particular time period were then grouped together and the greatest number of birds sighted for each species during that time period was recorded. Those numbers were then averaged over the 13-year period for each time period. The results for the three most common species were then used to illustrate use of the area throughout the year.

RESULTS AND DISCUSSION

A total of 28 species of shorebirds were recorded at the sewage plant during the 13 years of surveys, although the numbers of birds using the site varied from year to year. The three most common migratory species were the Pectoral, Semipalmated and Least Sandpipers (Fig. 1; a complete list of all the species encountered at the site can be found in Table 1 with their scientific names). Although it was not uncommon to record in excess of 500 birds at the site during peak migration, two surveys in 1991 recorded the largest number of birds of one species during a single survey. In the fall of that year, 4000 Pectoral Sandpipers were sighted in August as well as nearly 3000 Least Sandpipers counted in October. Fourteen different species were recorded at the site on at least one occasion during each of the 13 sampling years and an additional five species were found during at least half of the years.

Peak migration occurred over a relatively short time period during the spring, with all three species showing peak migration from within the last week in April through the last week in May (Fig. 1). All three species were then absent from the site after the first week in June and were only rarely spotted after that time

Table 1. Shorebird species encountered at the T.E. Maxson wastewater treatment facility (EARTH Complex) in Memphis, Tennessee from 1982-1994

Species	Years Seen at Treatment Plant/ Number of Surveys Completed that Year												
	'82 39	'83 37	'84 19	'85 39	'86 46	'87 56	'88 37	'89 34	'90 56	'91 62	'92 48	'93 38	'94 46
American Avocet (*Recurvirostra americana*)												X	
Black-Necked Stilt (*Himantopus mexicanus*) *	X	X	X	X	X	X	X	X	X	X	X	X	X
Semipalmated Plover (*Charadrius semipalmatus*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Killdeer (*Charadrius vociferus*) *	X	X	X	X	X	X	X	X	X	X	X	X	X
Black-bellied Plover (*Pluvialis squatarola*)			X			X						X	X
Lesser Golden-Plover (*Pluvialis dominica*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Willet (*Catoptrophorus semipalmatus*)		X				X				X	X	X	
Greater Yellowlegs (*Tringa melanoleuca*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Lesser Yellowlegs (*Tringa flavipes*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Solitary Sandpiper (*Tringa solitaria*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Spotted Sandpiper (*Actitis macularia*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Wilson's Phalarope (*Phalaropus tricolor*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Short-Billed Dowitcher (*Limnodromus griseus*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Long-Billed Dowitcher (*Limnodromus*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Stilt Sandpiper (*Calidris himantopus*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Common Snipe (*Gallinago gallinago*)		X	X	X	X	X	X	X	X	X	X	X	X
Ruddy Turnstone (*Arenaria interpres*)						X		X	X	X	X	X	X
Dunlin (*Calidris alpina*)		X	X	X	X	X	X	X	X	X	X	X	X
Sanderling (*Calidris alba*)									X	X	X	X	X
Semipalmated Sandpiper (*Calidris pusilla*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Western Sandpiper (*Calidris mauri*)	X	X	X	X	X	X	X	X	X	X	X	X	X
Least Sandpiper (*Calidris minutilla*)	X	X	X	X	X	X	X	X	X	X	X	X	X
White-Rumped Sandpiper (*Calidris fuscicollis*)		X	X	X	X	X	X	X	X	X	X	X	X
Baird's Sandpiper (*Calidris bairdii*)	X		X	X	X	X	X	X	X	X	X	X	X
Pectoral Sandpiper (*Calidris melanotos*)		X	X	X	X	X	X	X	X	X	X	X	X
Ruff (*Philomachus pugnax*)							X						
Upland Sandpiper (*Bartramia longicauda*)											X	X	
Buff-Breasted Sandpiper (*Tryngites subruficollis*)	X			X	X	X	X	X		X		X	X

* Nested at facility.

period. Certain other species were typically only found on the sites during either the fall or spring migration, primarily due to the elliptical pattern of migration that many shorebirds exhibit (Morrison and Myers 1987). For example, the White-rumped Sandpiper was typically only seen during the spring because they travel over the Atlantic Ocean during fall migration (Weir and Cooke 1976).

Fall migration occurred over a much longer time period as compared to spring migration, and it is believed to represent in part the differential migration of both juveniles and adults on the flight south (Weir and Cooke 1976, Howe et al. 1989). In addition, birds are more likely to be moving quickly to reach nesting sites in the spring, and therefore fall migration would likely occur at a slower

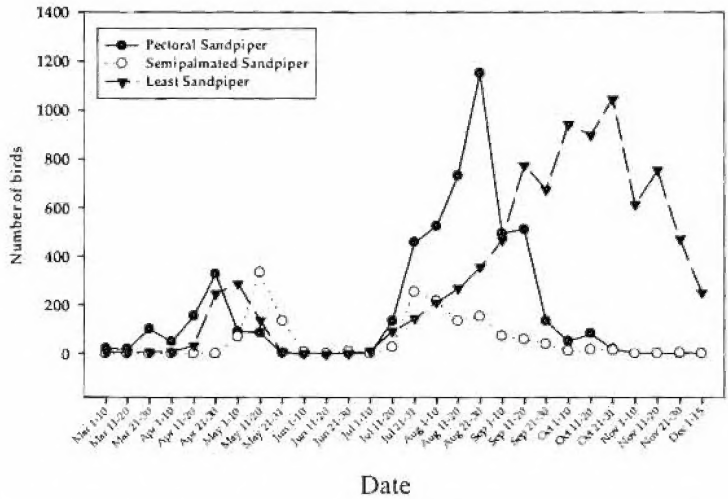

Fig.1 Migration chronology for the three most common species found at the T.E. Maxson wastewater treatment plant in Memphis, Tennessee from 1982-1994. Represented is the greatest number of birds seen during each 10- or 11-day time period for each year that has been averaged over the 13-year period.

pace in comparison (Skagen and Knopf 1993). Both Pectoral and Semipalmated Sandpipers showed peak numbers before September while the largest numbers of Least Sandpipers did not pass through the site until late October. In addition, although Pectoral and Semipalmated Sandpipers were only rarely found on the site after October, the average number of Least Sandpipers on the site was still greater than 200 birds by the first week in December.

The Killdeer was also a common species at the site, and was the only species to consistently use the facility on a year-round basis. There were usually only occasional sightings of other species from the time period of mid-June through early July as well as from the non-survey interval of December through March. An exception during the summer was the Black-necked Stilt, which began breeding at the site in 1984 (Coffey 1985), and by 1994, a total of 149 breeding individuals were found nesting in the tall grass that encircles the ponds at the facility. Their use of the area as a breeding site was a primary reason for the establishment of part of the EARTH Complex as a bird sanctuary (Waldron and Bean 1991). The complex also became noted as a site where uncommon birds representing both shorebird and non-shorebird species could be detected (Waldron and Bean 1991). A Ruff (1988), American Avocets (1993), and Sanderlings (1990-1994) were sighted using the ponds on at least one occasion during the 13 years of surveys (Table 1).

Sewage treatment facilities, when managed as the T. E. Maxson facility has successfully done, can provide an area with the necessary food source for migrating shorebirds (Fuller and Glue 1980). In addition, because there is usually water available in some of the ponds at all times during the year, the area can provide a stopover site for the variable times and lengths of all migratory shorebird species. This may be especially important to species such as the Semipalmated Sandpiper, whose earlier pattern of migration occurs during a time when water may not be readily available in other natural areas. Unfortunately, the area is undergoing management changes such that the ponds may not be available to shorebirds in the future. Despite these changes, these surveys have offered an opportunity to assess the utility of a habitat that provides benefits to both shorebirds (and other wildlife) as well as the public. The information that has been gathered from these surveys will be beneficial to furthering the knowledge of shorebird migration patterns of this area. Ultimately, these data, in combination with other surveys from the Mississippi Valley, will help to formulate a more comprehensive management strategy for the entire region.

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THE 1999 DISTINGUISHED SERVICE AWARD PRESENTED TO ROBERT M. HATCHER

Modifed from an award address written by

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Robert M. Hatcher of Nashville, TN, was the recipient of the 1999 TOS Distinguished Service Award. The award was presented by TOS president Susan McWhirter at the annual State Meeting at Reelfoot Lake State Park on 1 May, 1999. This award was established in 1989 to be given annually to persons who have made significant and lasting contributions to the Tennessee Ornithological Society.

Bob Hatcher has devoted his adult life to the management of non-game wildlife and endangered species. After earning a Bachelor of Science degree in Biology from Middle Tennessee State University in 1960, he went on to Auburn University to earn his Master of Science degree in Fishery Biology and Zoology. He began work with the Tennessee Game and Fish Commission (now known as the Tennessee Wildlife Resources Agency) in 1963. In 1978 Bob became TWRA's "Non-game and Endangered Species Coordinator." In the wake of Rachel Carson's *Silent Spring*, which raised the wildlife consciousness of the entire nation, a ban on DDT began the long struggle to prevent the extinction of many species. In the state of Tennessee, Bob Hatcher oversaw a program to restore endangered and threatened birds of prey. This has grown into a program of working with entire ecosystems, benefiting all wildlife living within those habitats. Desiring to spread the word about conservation, and in the need of funding assistance, Bob forged alliances with such groups as the Audubon Society, The Nature Conservancy, and our very own TOS. He enlisted businesses and industry, civic and conservation clubs, using volunteers as helpers in the struggle for restoration.

Among Bob's efforts at helping endangered species, we are perhaps most familiar with the remarkable Bald Eagle program. Between 1980 and 1988, 274 Bald Eagles were hacked in Tennessee. In 1983 there was only one Bald Eagle nest known in Tennessee, with a single fledged young. By 1998, 38 Bald Eagle nests were observed in Tennessee, with the 25 successful ones producing 42 fledged young. Other species that have benefited from the attention of Bob and his colleagues are the Peregrine Falcon, the River Otter, and the Bog Turtle. Even the freshwater mussels of Tennessee are currently receiving attention, as they have been critically impacted by man's abuse of our rivers and their watersheds.

In recent years, Bob served as Secretary of TOS, from 1991 to 1995. During this same period, Bob carefully guided the creation of the Bluebird license plate project (down to the authentic Bluebird colors on the plate!). In 1995, the Bluebird license plate was offered as a source of funds for the Watchable Wildlife Endowment Fund. The earnings of the fund are used to support Tennessee's rare and non-game wildlife program. This plate has been the most popular license plate in the state's history and to date the endowment has grown to $1.4 million.

We in the TOS have been privileged to work with Bob Hatcher as he has participated in our Society as a member and officer. It is truly an honor to be in the company of an individual who has so unselfishly given his life to the conservation of non-game, rare, and endangered species.

> *"They that wait upon the Lord shall renew their strength; they shall mount up with wings as eagles. They shall run and not weary; they shall walk and not faint." (Isaiah 40:31)*

The Migrant, 69(3): 125-126, 1998.

REPORT OF THE TENNESSEE BIRD RECORDS COMMITTEE

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This report describes the actions taken by the Tennessee Bird Records Committee of the Tennessee Ornithological Society from the fall of 1997 to the fall of 1998. Committee members and alternates who served during this period were Kevin Calhoon, Paul Hertzel, Dollyann Myers, Linda Northrop, Dick Preston and Chris Sloan. All of the voting was done through the mail.

Acceptance criteria remained the same through the year. A species is placed on the Confirmed List based upon either (a) extant, verified specimen, photograph, or sound recording, each accompanied by written details, or (b) satisfactory written documentation of three independent sight records, or satisfactory written documentation of three independent observers of the same bird. Without these levels of documentation, a species is placed on the Provisional List based on one or two sight records with satisfactory written documentation. Acceptance to either list required a unanimous vote of the committee.

A change of the committee to six regular members and one alternate, and allowing the acceptance of a record either by unanimous or one dissenting vote, came about from the passage of another amended resolution at the 1998 TOS spring meeting. All of the records acted upon in 1998 were with five regular members. The sixth was not chosen until 1999, so only unanimous votes allowed acceptance.

ACCEPTANCE RECORDS

Calliope Hummingbird (*Stellula calliope*): Photographs and excellent written documentation of a bird banded at the residence of Ed and Evelyn Wright in Nashville, Davidson County, on 2 December 1997 (*Field Notes* 52:210,1998) was accepted. This becomes the first record for the state, and the photographs place the species on the Confirmed List.

Black-chinned Hummingbird (*Archilochus alexandri*): Photographs and written documentation for a single bird banded at the Fraley residence in Franklin, Williamson County, on 14 December 1997 (*Field Notes* 52:210,1998) was accepted. This becomes the second state record, with the species already on the Confirmed list.

Allen's Hummingbird (*Selasphorus sasin*): Written documentation of a single bird banded at the Tellico Village community, Monroe County, on 17 January 1997 (*Field Notes* 52:196,1998) was accepted. This becomes the second state record, with the species already on the Confirmed List.

Allen's Hummingbird (*Selasphorus sasin*): Photographs and written documentation of a single bird banded at the residence of Bennette Rowan in Johnson City, Washington County, on 2 December 1997 (*Field Notes* 52:196,1998) was accepted. This becomes the third state record, with the species already on the Confirmed List.

RECORDS NOT ACCEPTED

White-tailed Tropicbird (*Phaethon lepturus*) This was a resubmission of written documentation of a single bird seen at Douglas Lake, Jefferson County on 8 September 1990. The record was not accepted (2-3 vote) due to the lack of a weather system which could explain such an unlikely occurrence as well as insufficient details on the identification of the bird.

Eurasian Tree Sparrow (*Passer montanus*) Written documentation of a single bird seen in Nashville, Davidson County on 20 June 1998 was not accepted (1-4 vote) because of insufficient details to determine specific species.

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STEDMAN S.J. 1998. Changing Seasons: Central South Region. *Field Notes* 52 (2):210.

OBSERVATIONS OF A COMMON RAVEN NEST AT DEVIL'S LOOKING GLASS, UNICOI COUNTY, TENNESSEE

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Johnson City, TN

A Common Raven (*Corvus corax*) nest was discovered on Devil's Looking Glass on 11 April 1996 by Richard L. Knight. Devil's Looking Glass is a 510-m (1700-ft.) elevation bluff adjacent to the Nolichucky River near Erwin, Unicoi County, Tennessee. The nest site, sheltered by overhanging rock, was on a ledge about 100 m above the river and 50 m below the top of the bluff. Ravens also nested at this site in 1997 and 1998. I do not know if the breeding adults present each year were the same birds. Because ravens tend to nest in the same location year after year (Ratcliffe 1997), it is possible they were the same birds.

In the spring of 1998, I spent about 15 hours over 11 days between 22 February and 20 June observing the ravens at this nest. I observed nesting activities from the opposite side of the Nolichucky River, at a distance of 200 to 300 m, using 8 X 42 binoculars and a 45X zoom spotting scope. Because of the scarcity of published observations of ravens nesting in Tennessee and elsewhere in the Southern Appalachians (Hooper 1977, Alsop 1979, Williams 1980, Robinson 1990, Nicholson 1997), I present a summary of my observations in this article.

OBSERVATIONS

22 February [time not recorded]. I saw a pair of Red-tailed Hawks (*Buteo jamaicensis*) flying over the bluff; one hawk was carrying a stick. The hawks flew behind the mountain. A raven then flew around the mountain and perched in a tree near the bluff. It began eating food it carried in its bill. It then flew down to the ground and eventually flew up to perch on the ledge used for nesting in 1996 and 1997. I briefly saw another raven flying down the river. I did not notice any signs of actual nesting, although the nest used in 1997 was quite visible.

6 March, 1440 to 1645. Both ravens were observed perched and flying around the nest site. On two occasions they carried food to the nest and ate it there. Neither raven was seen on the nest in an incubating or brooding position. I was unable to determine the nest contents. At one point during my observations, six or eight American Crows (*Corvus brachyrhynchus*) perched in trees about 100 m below the nest. I saw no aggressive interactions between these crows and the ravens. Crows perched across the river at a level below the raven nest called regularly; their calls did not appear to be directed at the ravens.

26 March, 1530 to 1822. A raven, presumably the female, sat on the nest for much of my observation period. Her periods on the nest were usually less than five minutes. The longest nest visit I observed was about ten minutes. The raven's absences from the nest were usually 8 to 10 minutes long. The sitting raven did not noticeably react to Turkey Vultures (*Cathartes aura*) that flew above the nest site. During one of the raven's absences from the nest, a Canada Goose (*Branta canadensis*) landed on a grassy ledge about 7 m from the nest. While the goose was foraging on the ridge, a raven returned to the nest. The raven stood on the nest for about a minute before it sat on the nest to incubate eggs or brood young. While the raven was on the nest, the Canada goose stood motionless, perhaps stressed by the raven's presence.

4 April, 1645 to 1728. The raven pair flew towards the nest site and perched on the ledge to the side of the nest. The lead raven carried unidentifiable food, some of which it ate. It then hopped to a rock crevice and drank water from it. The second raven hopped to the food and ate it.

5 April, 1300 to 1400. I broadcast recorded calls of a raven to observe

the response of the raven pair. Because of the noise of the river, the ravens probably could not hear the broadcast calls and I observed no changes in their behavior.

11 April. Four nestlings were visible in the nest.

23 April. Three or four young were visible in the nest. The nestlings were quite noisy and well covered with black feathers; they still had some tufts of down and white feathers in their wings. Based on their appearance, I assumed they were about four weeks old.

1 May, 1330 to 1500. Four nestlings were visible in the nest. All still contained white in their wings, but they lacked most of the down. While a parent raven was perched near the nest, a Red-tailed Hawk flew towards the nest. The raven flew from the ledge croaking loudly and dived at and chased the hawk. The raven continued chasing the hawk, while croaking loudly, until they disappeared around the side of the cliff.

7 May, 1530 to 1553. Because of pouring rain, visibility was poor. I saw an adult raven perched on a ledge below and to the side of the nest, but was unable to determine whether nestlings were present.

8 May, 1021 to 1230. No nestlings were visible, and I saw no sign of fledglings. Both adults were in the area and perched in trees near the nest site. I did not see the adults carrying food.

20 June. I did not see any ravens in the vicinity of the nest.

DISCUSSION

According to the late, local egg collector Robert Lyle, "You can always find a full clutch of eggs in a raven's nest on St. Patrick's Day [17 March]." Williams (1980) reported a nest with seven eggs, probably a full clutch, on 9 March 1974 in the Great Smoky Mountains National Park, and Hooper (1977) reported that most Virginia nests had eggs by 8 March. Stiehl (1985) found that ravens begin nesting in early March in Oregon.

Davis and Davis (1986) reported the incubation period of Common Ravens to be from 17 to 21 days. Stiehl (1985) reported an average incubation time of 20.9 days (n=36) in Oregon. No comparable information is available from the southern Appalachians. Ravens begin incubating before the last egg is laid and the eggs hatch over the period of a few days (Ratcliffe 1997).

Davis and Davis (1986) and Thomas (1993) observed that young ravens were well feathered at four weeks old but continued to develop their feathers for two more weeks. Nestling ravens tend not to fledge at one time due to sibling differences in development and asynchronous hatching (Ratcliffe 1997). A brood of four may take three to four days to fledge. The average age at which nestlings fledge was given as 41 days by Stiehl (1985), and as 45 days both by Davis and Davis (1986) and by Thomas (1993). Dorn (1972) found a nestling period of 30 to 45 days in Wyoming. Hooper (1977) noted that nestlings fledged in late April and early May in Virginia. After fledging, the

family gradually moves farther and farther away from the nest (Ratcliffe 1997).

I assume the nestlings at Devil's Looking Glass fledged on 4 May, midway between my last observations of the nestlings and my next nest visit. Using a 20-day incubation period and a 40-day nestling period, a full clutch would have been completed on 5 March. The eggs would have hatched on or about 25 March.

I observed interactions of ravens with other species of birds throughout my study. Turkey Vultures were seen soaring above the raven nest without harassment from the nesting ravens. Ravens have been observed mobbing Turkey Vultures near a raven nest in Rocky Fork, Unicoi County (Michael Welsh, pers. comm.). On 1 May, one of the adult ravens at the Devil's Looking Glass nest attacked a Red-tailed Hawk that flew close to the nest. Williams (1980) reported a similar occurrence in the Great Smoky Mountains. Dorn (1972) frequently observed conflicts between nesting Common Ravens and Red-tailed Hawks in Wyoming. He observed a red-tail "show interest" in a young raven only once; the parent ravens immediately attacked and drove the hawk away. I frequently saw American Crows near the nest site, but did not observe any interactions between crows and ravens. This is in contrast to previous observations in which I saw two crows mob a raven at the American Limestone Quarry in Fairview, Sullivan County on 5 April 1998. I have also observed American Crows mob in response to broadcast raven vocalizations. Raven calls were broadcast near an active raven nest in Watauga, Carter County on 11 April 1988. One raven, which I assume was the male, flew to a nearby perch and called aggressively soon after the broadcast began.

ACKNOWLEDGEMENTS:

I thank Chuck Nicholson for his comments on this manuscript.

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AN OBSERVATION OF A WHITE-THROATED SPARROW EXHIBITING PARTIAL ALBINISM

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A partially albinistic White-throated Sparrow (*Zonotrichia albicollis*) was observed at 1830 on 21st April 1994, near Second Creek on the University of Tennessee Campus, Knoxville, TN. The bird appeared to be lacking normal melanin pigmentation in its head feathers, but there was no sign of abnormal coloration elsewhere in the bird's plumage. The bird was moving actively through shady scrub overhung with large trees along the creek, and was accompanied by a loose flock of about 8 other normally-plumaged *Z. albicollis*. It was observed for 10 minutes in total, preening and sitting in low bushes and the lower branches of the overhanging tress, between 3 and 8 m above the water. It did not call.

A physical description of the bird was as follows:

Structure: Fairly large and bulky sparrow. Compact, large-headed, quite long-tailed and relatively short-winged. Identical build and posture to other accompanying *Z. albicollis*. Bare parts: Legs pink, eye black, bill dark grey.

Upperparts: Tail dark greyish-brown. Remiges brown with buffy

fringes,obvious off-white greater and median covert wing-bars. Distinct buff and dark-brown scapular and dorsal lines. Upperparts not distinct from other *Z. albicollis*.

Underparts: Fairly uniform pale grey with dark streaking on breast and flanks, again not distinct from other *Z. albicollis*.

Head: Striking uniform white, including the entire nape and throat. Strong yellow loral spot as normal *Z. albicollis*. Two broken lateral crown-stripes formed of uneven black spots, running from the central dorsal lines across over the lores to the fore-crown, where the spots were least distinct. Very indistinct black malar stripes, also formed of tiny, uneven black spots.

There is no recent synthesis of albinism in North American birds, but Gross (1965) compiled records of 1,847 individual observations of albinism in birds of 304 species. These totals included 296 individuals of 42 species of Fringillidae, of which 15 individuals were *Z. albicollis*. Gross (1965) argues that sedentary species and social breeders are particularly prone to albinism, due to the higher incidence of inbreeding in these groups, but *Z. albicollis* falls into neither of these groups. The species does, however, exhibit peculiar polymorphism in the colour of the crown-stripes ("tan-striped" and "white-striped") in breeding plumage (Atkinson and Ralph 1980), which could conceivably lead to the occurrance of albinism in occasional individuals. The bird was not observed on subsequent visits to the site, and indeed, overall numbers of *Z. albicollis* on Second Creek declined sharply in late April.

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LATE RED PHALAROPE AT CHATTANOOGA, TENNESSEE

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On 16 February 1998, while birding at the Brainerd Levee, Hamilton County, I observed a basic plumaged adult Red Phalarope (*Phalaropus fulicaria*) in the shallow lake behind Boyd Buchanan school. It was seen as close as 30 m

as it swam back and forth across the length of the lake. Elite 10 x 40 binoculars and a Kowa TSN-2 spotting scope with a 20-60x eyepiece were used to observe the bird. Eighteen observers noted all field marks between 1400 and1600 EST, and several identifying photographs were also taken. A short (same length as head) thick bill, an unstreaked gray back and a strong white wing stripe seen in flight, separated this bird from the other two species of phalaropes.

This species is considered extremely rare in Tennessee and is usually found later in the year than the other phalaropes (Robinson 1990). Of the 20 records, 18 have occurred between 14 August and 17 December. The latest state record published in *The Migrant* is a dead bird found on 17 December 1944, Great Smoky Mountains National Park CBC (MIG 15:73). This 16 February 1998 sighting is one of only two records outside of this time frame. The other is a questionable sighting of four on 28 April 1963, Greeneville SBC (MIG 34:31). The details were unconvincing and inconsistent with the plumage for a Red Phalarope (Robinson 1990). The table below lists the 18 known Tennessee records between 14 August and 17 December by month and year (both published and unpublished). All records are of one or two birds:

Table 1. Known Tennessee records of the Red Phalarope between 14 August and 17 December. Relevant references are listed under "References."

AUGUST

Ensley Bottoms 14/8/1993[1]
Radnor Lake 31/8/1994
Rankin Bottoms 23/8/1998[2]

SEPTEMBER

Bush Lake 24-29/9/1964
Cove Lake 20-21/9/1970
Percy Priest L. 26/9/1970
Island 13, Miss. R. 16/9/1991
Ensley Bottoms 19/9/1993[1]

OCTOBER

Radnor L. 6/10/1984
Old Hickory L. 26/10/1986
Paris Landing SP 25/10/1987

NOVEMBER

Maryville 29/11/1959
Buena Vista Marsh 8/11/1972
Fall Creek Falls SP 1/11/1985
Dekalb County 20/11/1994

DECEMBER

Great Smoky Mts. NP 17/12/1944
Wood Reservoir 4/12/1965
Savannah Bay 12-13/12/1967

1 Jeff Wilson, 1999, Personal Communication.
2 Rick Knight, Season Report, *Migrant* 1998 69(4), in press.

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The Migrant 69 (3): 134-136, 1998

MINUTES OF THE 1998 FALL MEETING TENNESSEE ORNITHOLOGICAL SOCIETY OCTOBER 31, 1998

The Fall meeting of the Tennessee Ornithological Society (TOS) was held on October 30-November 01, 1998 at Paris Landing State Park near Paris, Tennessee. The Memphis chapter of TOS served as the host chapter. Several field trips were held at various birding sites around the park location.

The Directors Meeting was called to order at 4:30 pm by President Susan McWhirter.

Secretary Knox Martin reported that a quorum was present.

A motion to accept the minutes of the Spring, 1998 meeting was made by Linda Northrop and seconded by Martha Waldron. It was passed by a unanimous vote.

REPORTS OF OFFICERS

West Tennessee Vice President - Bob Ford - No report

Middle Tennessee Vice President - Hazel Cassel - No report

East Tennessee Vice President - Ron Hoff - No report

DIRECTORS AT LARGE

West Tennessee - Donna Ward reported that Nancy Moore of Backyard Birds Bed & Breakfast at Reelfoot Lake reported that eight pairs of Bald Eagles nested at Reelfoot Lake in 1998. There was also an increase in the number of White Pelicans observed in August of 1998. Virginia Lamb of Dyersburg stated that she had not observed a Wood Thrush at her farm in several years but the species was present during September of 1998.

Middle Tennessee - Morris Williams - No report

East Tennessee - David Hassler - No report

Treasurer's Report- David Trently presented the Treasurer's report. TOS state membership currently stands at 776 members in 12 chapters. The Jackson chapter has been disbanded since the last meeting.

Curator's Report - Chuck Nicholson reported that Mac McWhirter was currently keeping all the back issues of *The Migrant*. He is trying to give them away to libraries or universities that might want a set. If you know of a place looking for a complete run see Chuck or Mac.

Nominating Committee - Chuck Nicholson reported that Chris Sloan is the new President-elect of TOS. The remainder of the slate of officers will be introduced at the May meeting. At that time nominations will also be taken from the floor. See Chuck, Carolyn Bullock or Mary Zimmerman if you would like to volunteer for a post as an officer.

Editor of *The Migrant* - Dev Joslin reported good progress on *The Migrant*. Both the 1995 and 1995 annual issues are out and the 1996 proofs are

ready. The 1996 issue should be in the mail within the month. Special thanks go to all those individuals who helped get this project caught up, including Susan McWhirter, Martha Waldron, Carolyn Bullock, Richard Lewis, and others. It looks like all the funds that were set aside for printing are used up. However, Susan McWhirter reported that the interest received from the TOS Endowment held by Massachusetts Mutual should cover the cost of printing and there will be no need for an increase in dues. There is also the possibility of changing printers to save money, but David Pitts pointed out that the current printer does excellent work and this should be kept in mind before a change is made. Chuck Nicholson also asked if any member could do layout work. Money could be saved if the layout work was done by TOS instead of the printer.

The count from Spring of 1995 has been lost. If any member still has the information from this count please give figures to Martha Waldron or Susan McWhirter. Each chapter should review their records for anything on this count.

Finance Committee - No report

Project Funding - Bob Hatcher reported on the current status of the Katherine Goodpasture Award given out by the Nashville TOS chapter. The award is given out yearly to support work being done in the field of ornithology. Awards are currently $500 which is an increase from the $300 awarded in 1997. Guidelines are available and award winners will be notified by March 15th so they can begin their work as soon as possible. They will also receive 75% of their grant funds immediately with the balance available after a progress report is given to the committee. These guidelines will be available on the TOS website as well as in *The Migrant*.

APPOINTED COMMITTEE REPORTS

Bird Records Committee - Dick Preston reported that two records had been completed (White-tailed Tropicbird and European Tree Sparrow) and three more were almost ready to be mailed out to committee members. The committee is working on several projects including revising the state bird list, working on codes for each state species, publishing a "rare bird form" to be printed in *The Migrant*, and putting out a list of the basic guidelines for submitting a report. The committee would also like to publish a clear breakdown of reasons why submissions are rejected. Members need to send in older records and these records need to be formatted to get a clear picture of what species of birds are in the state. A valid state list is top priority. Also 1st, 2nd, and 3rd records for all state birds.

Conservation - No report

Collateral Materials - Carolyn Bullock reported that the new TOS decals are now available for $3 each or 10 for $2.50 each. TOS patches are also available for $2.50 each. She gave Treasurer David Trently $7.40 raised from the sale of patches and $42 raised from the sale of decals.

Partners in Flight - Bob Hatcher reported that he had several Partners in Flight posters available for sale. See him or Bob Ford for details.

Technology - No report

Tennessee Warbler - Editor Theresa Irion reported that articles are still needed for future issues. There are still a few days left before the deadline for the December issue. The deadline for the April issue is the last week of February.

OLD BUSINESS

Dev Joslin reported on the status of the birding trip to the Dominican Republic. Due to severe hurricane damage the status of the trip is unknown. It really depends on the amount of damage done to the island. Dev will pass along any new information as it becomes known.

NEW BUSINESS

Three TOS members have passed away since the last state meeting. Ann Tarbell, Jim Finney, and Joe Howell, who was a retired Professor of Zoology at the University of Tennessee, all will be missed.

The Winter TOS meeting will be held at McMinnville on February 5th through February 7th. Headquarters will be at the Shoney's Inn. Field trips are planned to Rock Island State Park, Bone Cave Natural Cave, and Bird Ridge.

The Spring TOS meeting will be held at Reelfoot Lake State Park with the Memphis chapter acting as host chapter. Registration is $20. Forms will be available in the December "Warbler". Headquarters will be at Air Park. A number of birding trips are planned. See Memphis TOS Chapter President Dick Preston for details.

TOS member Polly Rooker gave a report on the toad and frog monitoring program started three years ago by the Tennessee Heritage Fund. The Fund is now out of funds and the only way for the program to continue is for it to be taken over by the Tennessee Wildlife Resources Agency (TWRA). Polly is a TWRA agent as is Nashville chapter member Bob Hatcher. They are planning to submit a request to TWRA Chairman Gary Myers to have TWRA take over the program and also fund a new position so a member of the program can give programs around the state as well as train new volunteers. It is hoped that will all the data collected by volunteers across the state the program will have some answers as to the reasons for the decline in numbers of toads and frogs, the value of wetlands in Tennessee, and the current status of frog and toad populations in the state. A motion was made from the floor by Polly requesting TOS to send a letter of support for this program to Gary Myers. The vote by the members to send the letter was unanimous.

Martha Waldron reported that TOS members George Mayfield was organizing a foray in Grundy County near Bersheba Springs on May 28th, 29th, and 30th. Contact George if you plan to attend.

David Trently reminded members of the TOS birding trip to South Carolina. Trips are planned to Santee NWR as well as Charleston. See David for details.

The meeting was adjourned at 5:20 pm.

Respectfully submitted,
Knox Martin, Secretary

The Migrant, 69(3): 137-142, 1998.

CONSTITUTION
OF THE
TENNESSEE ORNITHOLOGICAL SOCIETY

Organized October 7, 1915
As Amended May 3, 1998

ARTICLE I - NAMES AND PURPOSES

This organization shall be called the Tennessee Ornithological Society.

The purposes of this Society shall be to promote the science of ornithology in Tennessee, to publish the results of its investigations, to stand for the passage and enforcement of wise and judicious laws for bird protection, and to promote bird study and protection by any other means that may from time to time be deemed advisable.

ARTICLE II – MEMBERSHIP

The membership shall consist of Active, Family, Sustaining, Life, Honorary, and Student Members, actively engaged in the study of ornithology in Tennessee or otherwise interested in the bird life of Tennessee.

Family Memberships are available for couples, or parents and their children under 18 years of age.

Any person of eminence in ornithology, or of outstanding merit in the Tennessee Ornithological Society may be elected as Honorary Member. Honorary Members may be elected only by a unanimous vote of the Board of Directors present and candidates' names must be presented to the Society at least three months prior to election. Such election shall be for life.

A Student Member shall be a student enrolled in grades one through twelve.

The Board of Directors is empowered to drop any member for sufficient cause by a vote of two-thirds of the voting members present.

ARTICLE III – DUES

The annual dues for each class of membership shall be as set forth in the Bylaws.

No initiation fee shall be required. New members shall pay a year's dues in advance upon acceptance. All dues thereafter shall be payable in advance, as of January 1.

Any member in arrears for dues one year is automatically dropped from the rolls. Such person may be reinstated by paying current dues.

ARTICLE IV – BOARD OF DIRECTORS

All business and property of the Society shall be managed by a Board of Directors to be elected by the membership of the Society, together with the President who shall be ex officio Director.

There shall be elected from each chapter a Director for each ten members or major part thereof. No chapter shall have the right to elect more than five members to this board. Each Director shall serve for two years or until a successor is elected. Chapters with more than one Director shall elect, as nearly as possible, one-half of its Directors each year.

In addition to the Directors elected by the chapters, three Directors from the State at large shall be nominated by the Board or Directors and submitted to the annual meeting for election, but any member may exercise the privilege of nomination to the Board of Directors at this annual meeting.

The Board of Directors shall have charge of all funds raised for endowment. The annual dues of the members shall be used for the current expenses of the Society, but only the income from the endowment funds may be used for this purpose. The principal of endowment funds shall remain intact from year to year. The Board of Directors shall appoint a Finance Committee and may appoint other such committees as they deem necessary for raising endowments or for other matters relating to finances. The personnel of these committees shall be selected by the Board of Directors prior to the annual meeting.

ARTICLE V – OFFICERS

The Officers of this Society shall be a President, a Vice-President for each Grand Division of the State, a Secretary, a Treasurer, a Curator, an Editor, and a President-Elect. These officers shall serve for a period of two years, except the President-Elect who will serve for one year only before assuming the office of President. Upon action of the report of the Nominating Committee, a slate of officers shall be proposed by the Board of Directors and submitted to the Society at its annual meeting, but any member shall have the right to put in nomination the name of any other members from the floor. The term of the offices shall begin at the end of the business meeting at which they are elected. The retiring Treasurer and Secretary shall prepare and turn over their records to their successor within thirty days. Officers other than the President have no vote on the Board of Directors unless also an elected Director.

Vacancy in any office shall be filled by the Board of Directors, except in the office of the President. In that case, the Vice-President from the Division in which the President had membership shall succeed.

The President shall have general supervision of the affairs of the Society and shall preside at its meetings. The President shall be Chairman ex officio of the Board of Directors. The Chairman is expected to arrange by correspondence some weeks in advance the agenda for the meetings of the Board.

The Vice-Presidents shall give any assistance the President may solicit from them. The Vice-President from the Division in which the President has membership shall act in the President's absence.

The Secretary shall keep the minutes of the meetings, attend to official correspondence, prepare notices of meetings, and work to create interest in the activities of the Society.

The Treasurer shall collect the dues from all members and receive any other funds that may come to the Society; give attention to maintaining and increasing the membership; pay all bills upon their approval by the President; present to the Society an annual statement, as of the last day of the month preceding the annual meeting, of all receipts and expenditures. Upon its audit by the Finance Committee, this statement shall be filed with the Secretary. The Treasurer shall submit semi-annual reports to the Board of Directors.

The Curator shall have charge of all specimens that may come into the possession of the Society and shall be the keeper of all literature, field records, papers and the like that may come into the possession of the Society.

The Editor shall secure and prepare, with the aid of the editorial staff, suitable material for publication in the Society's quarterly, *THE MIGRANT*, and arrange for the printing and mailing of same.

The President-Elect shall not be an officer of the Board of Directors and shall have no voting voice in that body, unless serving in some other capacity. The President-Elect should attend the meetings of the Board of Directors, become acquainted with the business of the Society, and attend all meetings.

ARTICLE VI – COMMITTEES

A Nominating Committee shall be appointed by the President prior to the end of the calendar year in which the new President assumes office. Said committee shall serve for a period of two years or until the next President takes office.

It shall be the duty of this committee to propose to the Board of Directors at the annual meeting in years of even date a President-Elect, to take office as President the following year, and in years of odd date to propose to the Board a complete slate of officers. The President-Elect shall be chosen from that Division of the State whose turn it will be to receive the presidency for a full two-year term. Nominations from the floor for any office may be made at the annual meeting.

The Finance Committee, appointed by the Board of Directors, upon recommendation of the President, shall consist of five members, of which number the Treasurer and the Chairman of the Endowment Committee, if there be one, shall be members ex officio.

The Committee shall make an annual audit of the books and records of the Treasurer, including a physical count of such assets as are disclosed thereby, and at such other times as requested by the President. Such special request is to be approved by the Board of Directors. Said annual examination and audit shall be made at such time as will accurately disclose the condition of the Treasurer's books and records as of the end of an operating or fiscal year. A report of same is to be furnished the President prior to the annual meeting. The Chairman of the

Finance Committee shall report at the annual meeting on the audit taken.

The Committee shall review and evaluate annually the intended purpose, nature and then current use, of any and all endowment funds. A report of such review shall be made in writing to the President.

The Committee shall advise the Treasurer at such times as it deems appropriate on the transfer of cash funds from a checking to a savings account in a banking corporation or a Federal savings and loan association. The savings balance to be carried in any single institution is not to exceed the amount of deposit insured.

The Committee shall recommend to the President the establishment, maintenance, or termination, of any so-called "special funds" as may exist, whether active or inactive.

An Executive Committee composed of the President, President-Elect, Treasurer, Secretary and the three Vice presidents shall handle routine or extraordinary business that need not or cannot come before the entire Board of Directors due to time constraints. All actions of the committee shall be reported to the Board of Directors at its next meeting.

No member shall serve as Chairman of more than one Standing Committee. The President shall make every effort to name a broad representation from the membership to all committees.

The Tennessee Bird Records Committee shall be a Standing Committee. Members shall be appointed by the President. Procedures of this Committee shall be approved by the Board of Directors.

ARTICLE VII - MEETINGS AND QUORUM

The Society shall hold an annual meeting each Spring. A fall meeting may also be arranged at such time and place as the Board of Directors may decide.

Special meetings may be held upon the call of the President after consulting with members of the Board of Directors.

Fifteen Voting Members shall constitute a quorum for the transaction of business. Voting Members are defined as Active, Sustaining, Life, Honorary and Family Memberships, which shall have one vote. The affirmative vote of a majority of the Voting Members present at any regular meeting shall suffice for the passage of any matter except that given in Article IX.

A quorum of the Board of Directors shall be at least nine Directors present in person or represented by proxies in writing. At least six of said nine members shall be present and vote in person. The President shall request proxies for each meeting. The affirmative vote of a majority of the Directors present at any regular meeting shall suffice for the passage of any matter except that given in Articles II, IX, X and XI.

The rules contained in the current edition of *Roberts Rules of Order Newly Revised* shall govern the Society in all cases to which they are applicable and in which they are not inconsistent with this Constitution and Bylaws and any special rules of order the Society may adopt.

ARTCLE VIII – CHAPTERS

Local chapters may be established at any point in the State where there is sufficient interest and proper leadership. A Chapter, to be recognized as such, must maintain a membership of ten or more in good standing in the Society.

The meetings of such chapters may be conducted as outlined for the society as a whole, or they may establish their own rules of procedure. They shall elect their own local officers.

Dues for local chapters shall conform to those prescribed in Article III, Sec. I. They shall be collected by the local treasurer and sent to the State Treasurer.

The organization of local chapters is encouraged by the Society. Those who enroll in local chapters shall be members of the Society and are expected to support the statewide work of the Society.

ARTICLE IX – AMENDMENTS

Any Voting member may propose an amendment to the Constitution by notifying all officers, Directors, local chapter presidents and secretaries of the proposed changes in writing by first class mail, thirty days before a meeting of the Board of Directors or by publication in the Society's newsletter thirty days prior to the Annual Meeting.

The President shall present the proposed amendment to the meeting of the Board of Directors, who may, by two-thirds vote, accept, reject, or revise, in whole or in part, the proposed change. If accepted as presented or revised, the Board of Directors shall, through the President, present the resulting proposal to the following regular meeting of the membership. If rejected, the proponent may present the proposal to the membership, providing the foregoing notification requirement has been met. In either case, the proposal would become an amendment to the Constitution if approved by two-thirds of the Voting Members present at the regular meeting.

ARTICLE X – BYLAWS

The Board of Directors may adopt such Bylaws for the government of the Society as may be necessary provided they do not contravene any part of the Constitution. Bylaws or amendments thereto must be supported by a two-thirds vote. The subject matter for such Bylaws shall be submitted in writing thirty days before a meeting of the Board of Directors to all directors and to local chapters' presidents and secretaries or by publication in the Society's newsletter thirty days prior to the Annual Meeting. Failing such submission, adoption must be by unanimous vote of those present.

ARTICLE XI – DISSOLUTION

Ninety days prior to the annual or special meeting at which action to dissolve is to be voted on, the Secretary of the Society shall notify by first class mail the three Vice-Presidents, the Directors from the State-at-large, and

the president of each chapter whose responsibility it will be to notify all Directors representing that chapter.

The Board of Directors, by a two-thirds vote of those present, may adopt a proposal to dissolve the Society.

A simple majority of the votes of members present at the meeting is required to approve the proposal dissolving the Society.

Assets of the Society are to be distributed to an organization which qualifies as a tax exempt organization under Section 501 (c) (3) of the 1954 Internal Revenue Code, as amended.

BYLAWS
of the
TENNESSEE ORNITHOLOGICAL SOCIETY

DUES

The annual dues to be paid to the Tennessee Ornithological Society by each member shall be as follows:

Active Member, $10.00; Sustaining Member, $20.00; Student Member, $5.00

A Family Membership shall pay annual dues to the Society of $12.00 and shall receive one copy of each issue of *The Migrant*.

A member may become a Life Member by a single payment of $200.00 to the Society's endowment fund or by four consecutive annual payments of $50.00 each. The member is to pay only the total amount due for Life Membership at the time of the first payment.

Libraries and similar subscribers shall pay $15.00 per year.

Honorary Members shall not be liable for dues.

Local chapters may add to the dues of members whatever is necessary to cover the expenses of the local chapter.

All members and subscribers shall receive *The Migrant*. No member who has failed to pay his dues by April shall receive any issue of *The Migrant* beyond the March issue, until such dues are paid. It shall be the duty of the Treasurer to keep the Secretary up-to-date on the membership in good standing.

The Tennessee Warbler shall be the official newsletter of the Society. There shall be at least 2 issues published each calendar year. A copy shall be sent to all members in good standing. An issue of *The Tennessee Warbler* shall be mailed at least thirty days before the Annual Meeting and shall contain a schedule of events, a proposed agenda for the meetings and proposed amendments to the Constitution and Bylaws. The editor of *The Tennessee Warbler* shall be appointed by the President.

(The charter of the TENNESSEE ORNITHOLOCIAL SOCIETY was granted by the State of Tennessee, December 14, 1938, and recording on Page 281 of the Corporation Record Book, Miscellaneous U. No 10656.)

The Migrant, 69(3): 143-158, 1998.

1998 SPRING FIELD DAYS

CHRISTOPHER J.E. WELSH

Spring counts were conducted in 14 locations across the state with dates ranging from 24 April to 9 May. Birders identified 223 species and a total of 72,844 individuals on count days plus an additional 2 species found only during count week (Table 1). Forty species were found on only one count while 19, 14, and 8 species were found on two, three, or four counts, respectively. The Nashville count recorded the highest species total with 171, partly due to an impressive run of warblers and vireos. The Elizabethton, Shelby Co., and Nashville counts had the most participants with 35, 32, and 31. Level of effort varied considerably among counts with Hamilton Co. accounting for the most party hours and party miles (Table 1). Hamilton Co., Knox Co., and Nashville birders covered the most party miles on foot.

Species of note included Horned Grebe, Least Bittern, Glossy Ibis, Rough-legged Hawk, King and Virginia Rail, Black-necked Stilt, Willet, Upland Sandpiper, Baird's Sandpiper, Wilson's Phalarope, Common and Black Tern, Eurasian Collared-dove, Barn Owl, Olive-sided and Least Flycatcher, Brown-headed Nuthatch; Bewick's, Winter, and Sedge Wren; Gray-cheeked Thrush, Hermit, and possible Bicknell's thrush; American Pipit, Philadelphia Vireo; Golden-winged, Orange-crowned, Black-throated Blue, Swainson's, Connecticut, Mourning, Wilson's, and Canada Warbler; Painted Bunting; and Bachman's, American Tree, Vesper, Lark, Henslow's, and Fox Sparrow. It was a good year for waterbirds with 11 wader species, 13 ducks, 4 rails, 19 shorebirds, and 4 terns. Thirty-seven warbler species and 16 sparrow species were observed. Purple Finch, Pine Siskin, Evening Grosbeak, and Red-breasted Nuthatch were each found on three or more counts.

Many of the spring counts were conducted in conjunction with the North American Migratory Bird Day counts on 9 May. Results from these counts are reported here as well as in Hoff and Joslin (1998). TOS has been conducting annual Spring Counts in the current format since 1946, resulting in a significant database for some counts. While it is sometimes difficult to mount more than one serious field effort in a season, chapters with a long history of Spring Counts at the end of April should consider continuing their usual Spring Counts in addition to participating in the May NAMBD count. Trends of species and numbers of individuals could be influenced dramatically by a shift in count date.

CLARKSVILLE. 9 May 1998. Temp. 58-75 F; clear to partly cloudy with light rain in afternoon; wind SE 0-10 mph. Twelve observers in 6 parties put in 656 party miles and 95 party hours in the field. Sixteen observers watched for birds at feeders. 135 species; 7457 individuals. Highlights included Bald Eagle, King Rail, Wilson's Phalarope, Black-billed Cuckoo, Least Flycatcher,

Gray-cheeked Thrush, Hermit Thrush, Loggerhead Shrike, Dickcissel, American Tree Sparrow, and Bobolink. Participants: Joe Allen, Suva Bastin, Angela and Phil Crouch, Danielle Evans, Mike Filson; Andrew, Joe, and Matthew Hall; Debbie and Steve Hamilton, Rita Harker, Ken Haskins, Annie Heilman, Mary Hosler, Nancy Hughes, Thurston Lee, Ann Lowe, W.G. Lyle, Gloria (compiler: 861 Vaughn Rd, Clarksville, TN 37043) and William Milliken, Evelyn Nixon, Sallie Noel, Joe and Sally Schiller, Andy Warren, Barbara Wilbur, and Stanley York.

COLUMBIA. 24-25 April 1998. Ten observers participated in the Columbia count, locating 133 species and 6889 individuals. Highlights: American Bittern, Little Blue Heron, Gadwall, Canvasback, Northern Harrier, Upland Sandpiper, Hermit Thrush, and Swainson's Warbler. Participants: Jan and Bob Brown, Tom Edwards, William Jernigan, Allyn Lay, Anne and Bedford Lochridge, Mary Lyles, Cleo and George R. Mayfield (compiler: 999 Sunnyside Dr., Columbia, TN 38401), and Ingrid Shapiro.

ELIZABETHTON. 25 April 1998. Thirty-five birders in 8 parties from throughout Northeast Tennessee spent 85 party hours (including owling) conducting the spring bird count in Carter County and the adjacent counties of Unico, Johnson, Washington and Sullivan. 135 species; 6010 individuals. Some of the better finds included Horned Grebe, Great Egret, Northern Shoveler, Lesser Scaup, Bufflehead, Red-breasted Merganser, Bald Eagle, Northern Harrier, Sora, Barn Owl, Red-headed Woodpecker, Brown Creeper, Winter Wren, Marsh Wren, Gray-cheeked Thrush, Vesper Sparrow, Red-breasted Nuthatch, Purple Finch, Pine Siskin and Evening Grosbeak. Participants: Fred Alsop, Sarah Bates, Rob Biller, Janet Brown; Amber, Emily, and Jennifer Burkey; Wallace Coffey, Tess Cumbie, Gilbert Derouen, Jon Dice, Martha Dillenbeck, Mary Jane Erwin, Jacki Hinshaw, Reese Jamerson, Kimberly Jenkins, Brian Jones, Howard Langridge, Amanda Martin, Joe McGuiness, Charles Moore, Julia Morgan, Judy Musick, Marie Price, Andre Richmond, Rachel Riddel, Judy Roach, John and Lorie Shumate, Bryan Stevens, Kristi Tipton, Allen Trently, Lezlie Turner, Frank Ward, and Mike Welch. Compiler: Rick Knight, 804 N. Hills Dr., Johnson City, TN 37604.

FAYETTE CO. 9 May 1998. 0645-1400. Temp. 71-85 F; overcast sky. Theresa Graham logged 7 hours including 70 miles by car and 4 miles by foot counting birds in Fayette Co. 64 species; 462 individuals. Highlights included Common Tern and Yellow-bellied Sapsucker.

GREENEVILLE. 25 April 1998. 0600-2030. Temp. 40-70 F; mostly sunny with no precipitation; wind SW with gusts up to 10 mph. Fourteen observers in eight parties put in 42 party hours and covered 254 party miles. In addition, four feeder watchers logged 45 hours. The count area was all of Greene County, but with just 18 participants, significant portions of the county were not surveyed. 91 species; 3124 individuals, plus 20 additional species seen during count week. Highlights included Rough-legged Hawk, Barn Owl, Fox Sparrow, and Evening Grosbeak. Participants: Orland and Phine Britton, Bill Foland,

King and Margaret Gaut, Juanita and Lenard Heckart, Jim Holt (compiler: 311 Colonial Circle, Greeneville, TN 37745), Alice Loftin, Don Miller, Velda Moore, Michael and Willie Ruth Nevius, JoAnne and Larry Routledge, Helen Spees, Bob and Karen Zimmerman.

HAMILTON CO. 9 May 1998. 0500-2020. Temp. 57-77; sky clear in morning, overcast in afternoon; no wind or precipitation. Twenty-eight observers in 14 parties birded 124 party hours and covered 794 miles by car and 43 miles by foot. Owling effort included 8 hrs and 83 miles. 155 species; 9987 individuals. Highlights included American and Least Bittern, Little Blue Heron, Gadwall, Red-breasted Merganser, Bald Eagle, Merlin and Peregrine Falcon, Willet, Semipalmated and Western Sandpiper, Eurasian Collared-dove, Black-billed Cuckoo, Yellow-bellied Sapsucker, Olive-sided Flycatcher, Brown-headed Nuthatch (12), Sedge and Marsh Wren, Golden-winged Warbler, Wilson's and Canada Warbler, and Lincoln's Sparrow. Participants: Nelson Bennett, Kevin Calhoon (compiler: 1185 Mountain Creek Rd, Apt. 715, Chattanooga, TN 37405), Carl and Janice Chadwell, Danny Gaddy, Bill Haley, Doug and Geraldine Hayes, Claire Gurrion, Dennis and Gwen Harris, John Henderson, Bonne Johnson, Ron Heffner, Jonnie Sue Lyons, Barbara and Mike McMahan, Johnnie Parks, Tom Patton, John Selman, Roi and Debbie Shannon, Harold Sharp, David Vogt, Jimmy Wilkerson, Hayden Wilson, Meg Whooley, and Libby Wolfe.

HIGHLAND RIM. 24-25 April 1998. 0350-1800. Temp. 42-75 F; clear and calm. Ten observers in 5 parties put in 46 hours and covered 356 miles. 125 species; 3290 individuals. Highlights included American Bittern, Hooded and Red-breasted Merganser, Northern Harrier, Eurasian Collared-dove, Sedge and Marsh Wren, and Bachman's and Henslow's Sparrow. Participants: Don Davidson, G. Estep, John Lamb, Ruth Luckado, Douglas and Crystal Malone, Mickey Medley, Erma Rogers (compiler: 161 Roscoe Lynn Rd., Hillsboro, TN 37342), P. Rooker, and S. Wakeman.

JOHN SELLARS. 9 May 1998. 0615-1315, 1500-2030. Temperature range 60's -85 F; sunny, slight breeze. Fifteen observers in 5 parties put in 17 hours birding Wilson County. Seven feeder parties tallied 10 hours of watching, and approximately 2 hrs were spent owling. 90 species; 1869 individuals. Highlights included an *Empidonax* flycatcher, Bank Swallow, Veery, Warbling Vireo, Purple Finch, and Pine Siskin. Participants: Earline and Charles Berry, Frank Crawford, Jane Farris, Mildred Gaston, Kay Norris, Peg & Frank Ribble, Grace Speck, Ramona See, Sarah Thompson, Melissa (compiler: 339 Rippy Ridge Rd Normandy TN 37360) and Roy Turrentine, and Dean and Jeri Walker.

KNOX CO. 26 April 1998. 0630-2100. Temp. 53-75 F; sunny with variable wind. Twenty-six observers in 12 parties logged 350 party miles (312 by car, 38 on foot). 134 species (plus 6 count week); 6421 individuals. A Yellow-crowned Night-heron on a nest was possibly the first confirmed Knox Co. breeding record. One Palm Warbler found at UT Plant Sciences Farm was reported to be

"yellow" race (*Dendroica palmarum hypochrysea*). Count week birds included Great Egret, Glossy Ibis, Barred Owl, Common Nighthawk, Orange-rowned Warbler, and Black-throated Blue Warbler. Other highlights included American Black Duck, Ruffed Grouse, Caspian Tern, Yellow-bellied Sapsucker, American Pipit, Dark-eyed Junco, and Evening Grosbeak. Participants: Frank Bills, Sharon Bostick, Betty Reid and Jim Campbell, Howard Chitwood, Dean Edwards (compiler: 521 E Old A.J. Hwy, Jefferson City, TN 37760), Tony Headrick, Ron Hoff, Susan Hoyle, Kristine Johnson, Andy Jones, Dev Joslin, Joel Keebler, Tony Koella, Audrey Mayer, Dollyann Myers, Charles Nicholson, Holly Overton, Truett Patterson, Laurie Pearl, Martha Rudolph, Boyd Sharp, Bill Sullivan, David Trently, Craig Walker, and Chris Welsh.

MURFREESBORO. 9-10 May 1998. Temp. 65-70 F; partly cloudy and windy. Seventeen members of the Murfreesboro Chapter of TOS participated in the spring count locating 4403 individuals of 124 species. Highlights included Great Egret, Little Blue Heron, Northern Shoveler, Sora, Semipalmated Plover, White-rumped and Pectoral Sandpiper, Dunlin, Forster's Tern, Bewick's Wren, Loggerhead Shrike, and Lark Sparrow. Participants: Bertha Chrietzberg, Wilma (compiler: 3659 Wilson Overall Rd., Murfreesboro, TN 37127) and Richard Hunter, Dan and Mary Ann Jackson, Eric Lichtworatt, David McCarroll, Larry and Maryedith McFarlin, John Neal, Gene and Ruth Odom, Robert and Pat Sanders, Wanda Stegall, Ferrell Wilson, and Terry Witt.

NASHVILLE. 9 May 1998. 0430-1900. Temp. 60-75 F; overcast sky with slight wind. Thirty-one observers in 9 parties birded 200 miles and 22 hours by car and 38 miles and 48 hours on foot. In addition, 15 miles and 1.5 hours were spent owling, and 9 observers covered 5 feeders. 171 species: 7040 individuals. Species count was the highest since 1991 and 18 more than last year. Count area includes Davidson and Cheatham Co., Old Hickory Lake and the Gallatin Steam Plant in Sumner Co., Percy Priest Lake in Rutherford Co., and Owl's Hill Nature Center in Williamson Co. Highlights included horned grebe, American Bittern; Great, Snowy, and Cattle Egret; Little Blue Heron, Yellow-rowned Night-heron, Northern Shoveler, American Wigeon, Bald Eagle, Merlin, Virginia Rail, Semipalmated Plover; Semipalmated, White-rumped, and Pectoral Sandpiper; Dunlin; Caspian, Forster's, and Black Tern; Least Flycatcher, Sedge and Marsh Wren, Gray-cheeked Thrush, Philadelphia Vireo, Connecticut and Mourning Warbler, Wilson's and Canada Warbler, and Lincoln's Sparrow. Participants: Sue Ansley, David and Jan Alexander, David and Jean Buchanan, Hazel Cassel, Phillip Casteel, Candy Christman, Richard Connors, David Dortch, Jerry Drewry, Pandy English, Bonnie and Francis Fekel, Joe Francis, Ed and Janey Gleaves, Bob Hatcher, Pat and Susan Hollyday, George and Margie Koehler, Gail and Red Lavely, Steve Lawrence, Brenda and Doug Leach, Diana McLusky, Sharon Monroe, Dick Newton, Polly Rooker, Jan Shaw

(compiler: 5019 Timberhill Dr., Nashville, TN 37211), Chris Sloan, Joe Stone, Sabin Thompson, Rita Venable, and Mary Zimmerman.

PUTNAM CO. 9 May 1998. Temp. 55-78 F; wind W 0-10 mph; partly cloudy skies. Nineteen observers in 7 parties spent 78 party hours (51 by car, 27 on foot) covering 524 miles (508 by car, 16 on foot) tallying Putnam Co. birds. In addition, 2 hours and 27 miles were devoted to owling. 130 species; 10230 individuals. Highlights: Red-breasted Merganser was a first, bringing the all-time species count for the Putnam Co. Spring Count to 185. Several Catharus thrushes originally believed to be Bicknell's but ultimately recorded as Bicknell's/Gray-cheeked could have pushed the total to 186. Two Swainson's Warblers were found. Other highlights included American Woodcock and Lincoln's Sparrow. Fifty-one species were observed in record high numbers for the spring count, and 39 of these were also record highs for the county. Participants: Heather Bolte, Terry Campbell, Daniel Combs, Ginger Ensor, Dale Grandstaff, Graham Kash, Amy Mercer, Kenneth Morgan, Tom Roberts, Jeanne Schmitzer, Richard Simmers Jr., Stephen (compiler: 2675 Lakeland Dr., Cookeville, TN 38506) and Barbara Stedman, Alan Strong, David Sugeno, Robbie and Tyler Sykes, and Catherine and Winston Walden.

SHELBY CO. 9 May 1998. 0610-1900. Temp. 65-78 F; wind SW 5-10 mph. Thirty-three observers in 8 parties birded 25 hours and 21 miles by foot and 21.5 hours and 81 miles by car. 141 species: 4914 individuals. Details were submitted for Bewick's wren. Highlights included Great Egret, Yellow-crowned Night-heron, Gadwall, Ring-necked Duck, Mississippi Kite, 12 species of shorebirds, Caspian Tern, Black-billed Cuckoo, Olive-sided and Least Flycatcher, Brown Creeper, Gray-cheeked Thrush, Swainson's Warbler, Painted Bunting, and Lincoln's Sparrow. Participants: Charles Askew, David Blaylock, Cookie Blythe, Robert Browne, Carolyn Bullock, Lula Coffey; Clarice, Gordon, and Philomena Cox; Judy Dorsey, Lillian Durand, Jim and Sue Ferguson, Kate Gooch, Van Harris, Martha Heinemann, Margaret Jefferson, Prudence Katze, Knox Martin, Charles McCrary, Gerald Papachristou, George and Jeanne Payne, Rob Peeples, Gaynell Perry, Dick Preston, Barbara and Forrest Priddy, Virginia Reynolds, Martha Waldron (compiler: 1626 Yorkshire Dr., Memphis, TN 38119), Barbara Wilson, John and Linda Zempel.

STEWART CO. 9 May 1998. 0550-1330, 1540-1640. Temp. in the 70's; overcast, calm, some rain. Melinda Welton (5241 Old Harding Rd, Franklin, TN 37064) covered 65 miles (64 by car, 1 on foot) in 9.5 hours (3.5 by car, 6 on foot), mostly in the Land Between the Lakes area of Stewart Co., turning up 95 species and 748 individuals. Highlights included Loggerhead Shrike, 3 Henslow's Sparrows, and 25 warbler species.

Table 1. Results of the 1998 TOS Spring Counts

Species	Shelby Co.	Fayette Co	Stewart Co.	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co.	Knox Co.	Greeneville	Elizabethton	Totals
Common loon					13			10		1	2			2	28
Pied-billed grebe	2			12	1			1			1	9		4	30
Horned grebe					1									1	2
Double-crested cormorant				19	77		2	37			3	39		25	202
American bittern				1	1			1			1				4
Least bittern											1				1
Great blue heron	11		2	12	53	5	4	27	11	10	214	126	8	2	485
Great egret	6				2	1						cw		2	11
Snowy egret					1										1
Little blue heron				1	1	2					2				6
Cattle egret					112										112
Green heron	5	2	2	13	13	5	4	3	3	10	21	5	1	5	92
Black-crowned night-heron					128	1	7				1	10		3	150
Yellow-crowned night-heron	4				3							1			8
Glossy ibis												cw			cw
Snow goose					1										1
Canada goose	63	8	5	219	122	83	30	47	60	93	305	144	67	97	1343
Wood duck	18			32	51	12	7	6	6	47	47	3	45	46	320
American black duck												1			1
Mallard	28	12	2	12	85	7	19	11	36	18	110	40	19	116	515
Blue-winged teal	7			79	30	12		95	24	5	34	5	4	31	326
Northern shoveler					1	4								2	7
Gadwall	1			2							1				4

American wigeon					1										1
Canvasback				1											1
Ring-necked duck	3														3
Lesser scaup														2	2
Bufflehead														20	20
Hooded merganser								2							2
Red-breasted merganser								2		1	4			1	8
Black vulture		1	2	44	30	41	27	7	25	4	24	13	22	18	258
Turkey vulture		8	6	77	52	34	6	41	83	43	59	76	55	64	604
vulture sp.								7							7
Osprey				9	1	1		5		1	1	7	3	7	35
Mississippi kite	21														21
Bald eagle (total)					2				1		1			1	5
Bald eagle (imm.)											1				1
Northern harrier				1				1						1	3
Sharp-shinned hawk				4					1		1	5	1	3	15
Cooper's hawk	1			3	3	1			1	2	2	5	4	3	25
Accipiter spp.										1					1
Red-shouldered hawk	4			6	7		1	1	5	14	16	5			59
Broad-winged hawk	4			3	1			3	1	4		4	cw	9	29
Red-tailed hawk	7	2	4	24	28	9	5	9	20	9	27	10	11	10	175
Rough-legged hawk													1		1
Buteo sp.												1			1
American kestrel	5	2		21	11	15	3	3	7	16	4	7	10	9	113
Merlin					1						1				2
Peregrine falcon											2				2
Ruffed grouse												1	1	3	5

Table 1. Results of the 1998 TOS Spring Counts

Species	Shelby Co	Fayette Co.	Stewart Co.	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co	Knox Co.	Greeneville	Elizabethton	Totals
Wild turkey	9		2	8	4	6	6	3	5	4	15	3	5	1	71
Northern bobwhite	15	1	3	19	33	6	9	8	63	16	15	17	6	3	214
King rail									2						2
Virginia rail					1										1
Sora	1			21	1	1		3			8	1		1	37
American coot	4			166	59	15	19	35			35	12		15	360
Semipalmated plover					1	4									5
Killdeer	30	2	1	72	27	48	22	32	106	53	83	57	32	35	600
Black-necked stilt	24														24
Greater yellowlegs	1				1	9		9			4	4	5		33
Lesser yellowlegs	3				1	200		2	18		20	17	3		264
Solitary sandpiper	4	2		19	5	10	1	13	1	2	19	19	5	18	118
Willet											1				1
Spotted sandpiper	3			5	32	12		29	5	6	15	11	10	7	135
Upland sandpiper				1											1
Semipalmated sandpiper	3				20						3				26
Western sandpiper	1										5				6
Least sandpiper	92				58	40		4	1		17	2	cw		214
White-rumped sandpiper	6				14	1									21
Baird's sandpiper	1														1
Pectoral sandpiper	8				3	20									31
Dunlin					1	20									21
Common snipe				3				5	2				1	2	13

American woodcock					1					2					3
Wilson's phalarope									1						1
Bonaparte's gull					2			20				1		2	25
Ring-billed gull	4				34	6			6		81	22		12	165
Caspian tern	2				7							1			10
Common tern		6													6
Forster's tern					19	3									22
Black tern					1										1
Rock dove	85	8		83	73	200	5	9	65	100	120	180	16	58	1002
Eurasian collared dove								2			1				3
Mourning dove	131	9	5	156	125	163	72	77	168	249	436	219	143	146	2099
Black-billed cuckoo	1								7		1				9
Yellow-billed cuckoo	19	2	1		24	10	10		11	13	22				112
Barn owl													6	1	7
Eastern screech owl				5	1	2		1	2	1	6	1	cw	8	27
Great horned owl	1			6	6			3			8	2		2	28
Barred owl	1		1	13	12			7	3	11	2	cw		3	53
Common nighthawk	7				3	8	1	1	2	9	19	cw			50
Chuck-will's widow	4			5	1	3	2	1	2	11	10		cw	1	40
Whip-poor-will			1	2	13	3		10	5	5	6		4	31	80
Chimney swift	106	10	6	46	131	270	17	17	76	169	301	165	38	168	1520
Ruby-throated hummingbird	32		2	11	18	9	7	1	21	13	9	4	1	7	135
Belted kingfisher	4	2	1	6	8	5	2	6	10	9	9	8	9	14	93
Red-headed woodpecker	17			7	10		2	6	12	5	8	1	6	1	75
Red-bellied woodpecker	61	7	16	69	56	19	10	17	67	79	80	41	19	18	559
Yellow-bellied sapsucker		1									1	1			3
Downy woodpecker	33	5	1	34	33	8	9	9	28	29	26	16	15	19	265

Table 1. Results of the 1998 TOS Spring Counts

Species	Shelby Co.	Fayette Co.	Stewart Co.	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co.	Knox Co.	Greeneville	Elizabethton	Totals
Hairy woodpecker	2	1		12	2	3	1	1	10	7	8	3	2	2	54
Northern flicker	10		1	4	12	8	2	7	30	23	38	15	11	24	185
Pileated woodpecker	17		2	16	15	3	2	5	11	32	16	13	8	20	160
Olive-sided flycatcher	3										1				4
Eastern wood-pewee	89	2	21	1	56	12	11		59	75	21				347
Acadian flycatcher	75		13		10	1			16	51	4			2	172
Least flycatcher	1				4				2						7
Empidonax sp.							1			1					2
Eastern phoebe	5		4	27	25	3	23	13	24	40	24	11	13	39	251
Great crested flycatcher	44	2	7	9	34	23	5	1	30	51	44	10	2	1	263
Eastern kingbird	43	8	5	51	66	43	35	25	58	99	86	36	14	13	582
Horned lark	7			6				1		2					16
Purple martin	60			25	85	57	11	35	107	99	113	25	78	23	718
Tree swallow		4	1	86	5	2		15	1	15	3	12	35	50	229
N. rough-winged swallow	40	3	3	92	49	26	19	6	105	35	70	30	20	99	597
Bank swallow							1	1	36		3	12	2		55
Cliff swallow			25	120	704			4	371	5	310	20		32	1591
Barn swallow	58	8	19	92	80	84	84	79	159	269	264	127	89	85	1497
swallow sp.												2			2
Blue jay	79	33	10	148	111	139	59	78	188	189	313	383	114	213	2057
American crow	64	17	18	163	106	125	41	59	131	183	317	224	143	214	1805
Common raven														10	10
Carolina chickadee	71	8	10	70	110	46	28	20	86	92	187	102	33	92	955

Tufted titmouse	87	8	18	94	103	23	27	55	81	169	143	100	54	94	1056
Red-breasted nuthatch					1				2			7	cw	1	11
White-breasted nuthatch	10		2	27	22			3	22	28	16	9	3	14	156
Brown-headed nuthatch											12				12
Brown creeper	1													1	2
Carolina wren	88	7	11	56	105	40	21	24	85	127	175	68	26	54	887
Bewick's wren	2					1									3
House wren				5	8	10	4	2	17	21	3	12	6	8	96
Winter wren														4	4
Sedge wren					3			1			1				5
Marsh wren					2			1			1			1	5
Golden-crowned kinglet														11	11
Ruby-crowned kinglet	2			7	4			1			2	29	cw	10	55
Blue-gray gnatcatcher	85		22	93	80	12	25	33	46	160	107	98	13	74	848
Eastern bluebird	27	13	18	170	72	96	57	128	236	235	149	95	121	50	1467
Veery	5	3		1	3	1	1			6	2				22
Gray-cheeked thrush	6				4				1					1	12
Gray-cheeked/Bicknell's thrush										4					4
Catharus sp.										1					1
Swainson's thrush	114	6	12		48	21			19	28	24	3			275
Hermit thrush				1					1						2
Wood thrush	64	6	21	97	33	9	2	6	33	132	55	32	2	21	513
American robin	161	23	11	195	197	351	84	89	436	382	421	233	165	230	2978
Gray catbird	10	2	3	11	6	15	1	1	20	54	22	3	cw	1	149
Northern mockingbird	63	18	1	101	63	126	73	61	134	93	158	86	70	57	1104
Brown thrasher	16	2	6	31	48	17	10	35	71	49	100	34	25	19	463
American pipit												13			13

Table 1. Results of the 1998 TOS Spring Counts

Species	Shelby Co.	Fayette Co	Stewart Co.	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co	Knox Co	Greeneville	Elizabethton	Totals
Cedar waxwing	52				86	130	28		64	37	263	46	8	12	726
Loggerhead shrike	5		1	8	4	4	1		1		1	1	1		27
European starling	220	15	6	786	314	500	166	317	555	981	1073	741	498	900	7072
White-eyed vireo	84	1	21	65	42	20	2	31	43	116	29	29	6	9	498
Blue-headed vireo				1	2	1		1	17	19		5	1	20	67
Yellow-throated vireo	12		2	12	10			4	5	30	6	7		2	90
Warbling vireo	2			6	5		2		12	2					29
Philadelphia vireo					3										3
Red-eyed vireo	39	2	32	32	75	18	11	24	37	612	208	101	5	17	1213
Blue-winged warbler	1		6	18	12			3		31	4	3		2	80
Golden-winged warbler											2				2
Tennessee warbler	126	7	25	11	95	6	2		45	61	23	4			405
Orange-crowned warbler												cw			cw
Nashville warbler	2		1	6	1	1			15	5	1	4			36
Northern parula	52	1	12	25	15	1		31	9	55	1	7		30	239
Yellow warbler	5	1	4	18	43	16	7	2	33	104	35	2	1	4	275
Chestnut-sided warbler	14		1		17	4	1		1	10	6	3		2	59
Magnolia warbler	17		1		19	5			6	5	10		cw		63
Cape May warbler			1	2	18	7			2	13	17	2			62
Black-throated blue warbler												cw		23	23
Yellow-rumped warbler	5	1	8	99	30	4	9	89	40	25	34	214	29	33	620
Black-throated green warbler	1		1	3	14	3			6	42	22	36	1	66	195
Blackburnian warbler			1		2					2	8	1			14

Yellow-throated warbler	2		3	20	17			8	5	26	6	6	1	9	103
Pine warbler		2	1	11	1			10	5	34	39	11		8	122
Prairie warbler			9	22	26	30		19	24	93	68	36	cw	5	332
Palm warbler	1		3	65	57	4	1	4	13	8	43	19	cw	1	219
Bay-breasted warbler	5				14	3			2	26	8	1			59
Blackpoll warbler	20	4	8	1	43	22			5	57	50				210
Cerulean warbler	25		3	6	6				1	39		3			83
Black-and-white warbler	8		2	2	23	6		1	7	126	23	8	cw	34	240
American redstart	68		1	2	15	5	1		4	30	7	10			143
Prothonotary warbler	27	1	1	8	14	1	4	5	12	2	8	1	7	1	92
Worm-eating warbler			3	11	3			1		25	4	14	cw	11	72
Swainson's warbler	9			1						2					12
Ovenbird	20	1		10	4	3		20	8	175	13	20	3	38	315
Northern waterthrush	1		2	1	7			1	2	5	1				20
Louisiana waterthrush	11		2	9	8			4	1	10	3	4		13	65
Kentucky warbler	80		16	32	23	1	1	6	12	83	3	1		1	259
Connecticut warbler					1										1
Mourning warbler					3										3
Common yellowthroat	34	6	18	72	82	14	12	67	73	295	67	46	15	11	812
Hooded warbler	1			1	23			4	1	107	12	18	cw	34	201
Wilson's warbler					2						1				3
Canada warbler					1						1				2
Yellow-breasted chat	8	2	7	12	39	4	2	3	8	95	107	5	cw		292
Summer tanager	60	5	23	22	50	12	11	2	21	73	22	3			304
Scarlet tanager	6		6	34	33	5	2	2	13	57	40	37	2	4	241
tanager sp.												1			1
Northern cardinal	188	25	16	295	257	157	94	92	433	333	412	242	121	118	2783

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Species	Shelby Co.	Fayette Co.	Stewart Co.	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co	Knox Co	Greeneville	Elizabethton	Totals
Rose-breasted grosbeak	21	3	8	5	36	13	5		86	51	8	9	cw		245
Blue grosbeak	3	2		6	7	2	4	14	9	20	9	4	cw		80
Indigo bunting	322	11	43	41	237	43	49	15	197	656	200	25	2	7	1848
Painted bunting	1														1
Dickcissel	220				2	12		1	35	1					271
Eastern towhee	28	5	11	67	102	30	22	47	139	139	110	107	33	93	933
Bachman's sparrow								1							1
American tree sparrow									6						6
Chipping sparrow	12		6	84	18	20	12	47	85	137	59	28	6	42	556
Field sparrow	10		5	108	224	41	30	59	66	143	77	62	17	51	893
Vesper sparrow														2	2
Lark sparrow						3									3
Savannah sparrow	14			19	5	6		2			3	59	2	12	122
Grasshopper sparrow	5			3		1		9		4	1	7	cw	10	40
Henslow's sparrow			3					6							9
Fox sparrow													2		2
Song sparrow	8		1	1	11	2		21	6	178	143	92	47	178	688
Lincoln's sparrow	1				3					2	1				7
Swamp sparrow			3	15	7	1		9	1	1	4	3	cw	1	45
White-throated sparrow	16		4	127	16	17		69	48	6	11	143	41	113	611
White-crowned sparrow	3			3	8	1		1	8	2			16	32	74
Dark-eyed junco												2		24	26

Bobolink	85			1	3		1		49	3	82	3			227
Red-winged blackbird	170	15	15	239	137	117	67	157	397	330	207	282	111	180	2424
Eastern meadowlark	79	14	6	298	55	113	76	81	214	231	133	109	124	127	1660
Common grackle	118	69	3	352	334	100	96	119	193	231	279	259	173	639	2965
Brown-headed cowbird	113	2	54	95	72	55	76	70	118	94	79	67	31	38	964
Orchard oriole	13		3	12	17	7	5	8	11	56	16	16	1	3	168
Northern oriole	20	2	1		7	5			8	4	6	1	3		57
Purple finch				15			3		7				9	28	62
House finch	37			22	38	20	9	17	130	37	46	45	36	51	488
Pine siskin				2	25		2		2				cw	40	71
American goldfinch	29	1	6	445	141	76	107	294	396	125	288	183	101	250	2442
Evening grosbeak												2	cw	16	18
House sparrow	63		2	37	28	100	11	53	104	106	60	52	45	35	696
Total species	141	64	95	133	171	124	90	125	135	130	155	134 (+6 cw)	91 (+20 cw)	135	223
Total individuals	4914	462	748	6889	7040	4403	1869	3290	7457	10230	9987	6421	3124	6010	72844

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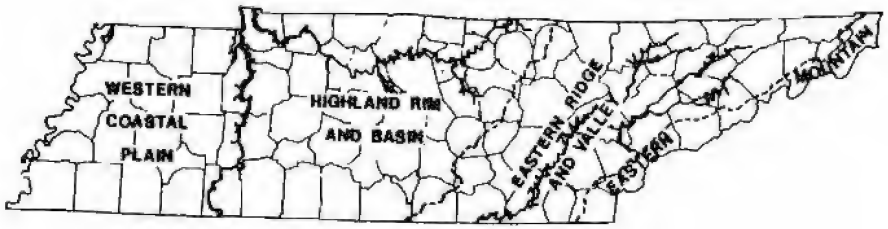
Species	Shelby Co.	Fayette Co	Stewart Co	Columbia	Nashville	Murfreesboro	John Sellars	Highland Rim	Clarksville	Putnam Co.	Hamilton Co.	Knox Co	Greeneville	Elizabethton	Totals
EFFORT:															
Number of participants	33	1	1	10	31	17	15	10	12	19	28	26	14	35	
Number of parties	8	1	1		9		5	5	6	7	14	12	8	8	
Party hours	46.5	7.25	9.5		69.25		17 25	45.5	95	78	124		42	85	
Hours on foot	25	4.33	6		47.5		1			26.75			12		
Hours in car	21.5		3.5		21.75		16.25			51 25			25.5		
Hours in boat													4.5		
Party miles	102	74	65		237.6		63.25	356	656	524	837	350	254		
Miles on foot	21	4	1		37.6		0.25			16.5	43	38	5.5		
Miles by car	81	70	64		200		63			507.5	794	312	246		
Miles by boat													2 5		
Hours owling					1 5		2		2	2.25	8	1	0 25		
Miles owling					15					27	83				
Feeder participants					9				16				4		
Feeder parties					5		7								
Feeder hours							9.83					3	45		
NAMBD	Yes	Yes	?	No	Yes	?	Yes	No	?	Yes	Yes	No	No	No	
CW = Count week. Indicates species was seen during count week (3 days before or after the count but not on count day).															

The Migrant, 69(3): 159-170, 1998.

THE SEASON

Richard L. Knight, editor



Spring: 1 March - 31 May 1998

Early spring continued mild following an El Nino-influenced winter. However, late March into May was generally cooler than expected, delaying some migrants. As always, conditions varied across the 500-mile length of Tennessee. Highlights of this migrational season were plentiful and included some significant breeding reports, as well.

A White-winged Dove and Iceland Gull in the western coastal plain would represent first and second state records, respectively, pending acceptance by the Tennessee Bird Records Committee (TBRC). The dove was probably part of a large dispersal event in the southeastern U. S. Nashville still hosted the state's first Calliope Hummingbird, present since late autumn. Swainson's Hawks were reported from two regions. Numerous other rarities can be sifted from the regional reports, as can interesting tidbits concerning regular migrants.

The breeding season commenced with good news. A Northern Shoveler brood represented the first breeding evidence in the state. A juvenile Virginia Rail was the first for the western region. In the east, Peregrine Falcons returned to two nest sites and a possible third nest was discovered. Searches for Cerulean Warbler and Henslow's Sparrow in middle Tennessee yielded encouraging counts for these two beleaguered songbirds. The Henslow's Sparrow is a recent colonizer in the state.

Standard Abbreviations

ad - adult
Co - County
ers - earliest reported sighting
et al. - and others
m - male
max - maximum 1day count
Mtn - Mountain
NWR - National Wildlife Refuge

f - female
im - immature
L - Lake
lrs - latest reported sighting
R - River
SP - State Park
WMA - Wildlife Management Area
yg - young

WESTERN COASTAL PLAIN: Above average rainfall and below normal temperatures did not keep 57 observers from spending a total of 86 days in the field as they birded their favorite sites in ten counties. The sighting of a White-winged Dove would be a first state record, pending TBRC approval. The first state breeding record was established for Northern Shoveler. An Iceland Gull was the first for west Tennessee, while Fulvous Whistling-Duck and Swainson's Hawk became the second regional occurrences. Other unexpected visitors included Pacific Loon, Glossy Ibis, Cinnamon Teal, Eurasian Wigeon, Marbled Godwit, Scissor-tailed Flycatcher, and a *Streptopelia* dove. Selected waterfowl and shorebird data are included in this report; for information regarding waterfowl and shorebirds not listed contact the regional compiler.

Loon - Duck: **PACIFIC LOON:** 7 Mar (2) Pace Point, Henry Co (KAC, MAG, CAS), 3rd west Tenn. & 4th (?) state record. **Horned Grebe:** 14 Mar - 6 Apr (19 max) Champy's Pocket, Lake Co; 15/23 Mar (1) Everett L., Dyer Co; 18 Mar (18) Mud L; 19 Mar (4) Samburg, Obion Co; 24 Apr (1) Black Bayou WMA (WGC); 4 Mar (13) Shelby Farms (VBR). **American White Pelican & Double-crested Cormorant:** Mar - May, reported in Dyer, Lake, & Obion Cos. **Anhinga:** 22/24 May (1 m, 1 f) Gr. River Rd., Dyer Co (WGC / MAG, MJW, JRW); 24 May (1) Crutcher L, Lauderdale Co (MAG), near a nest site of the late 1980s. **American Bittern:** 1-2 Apr (2) Long Point; 11 Apr - 8 May (3 max) Black Bayou WMA (WGC). **Least Bittern:** 15 May (1) Hooper Marsh, Dyer Co (MAG); 7 May (1) sw Shelby Co (DDP); 16/29 May (1) Black Bayou WMA (Carla Daily, MAG, David Pitts). **Tricolored Heron:** 16 May (1) Black Bayou WMA (MAG). **Black-crowned Night-Heron:** 10/30 Apr (1 ad) Whites L (WGC); 11 Apr (1 ad) EARTH Complex (JAZ, LVZ); 4 May (1) Black Bayou WMA (WGC); 5/24 May (2-3) Tennemo Levee, Dyer Co (WGC, MAG et al.). **Glossy Ibis:** 4 / 28 May (1 / 4 ad, breeding plumage) Hwy 79, Lake Co (WGC). **Fulvous Whistling-Duck:** 14 May (4) Black Bayou WMA (WGC, Nancy Moore), 2nd west Tenn. record. **Snow Goose:** 15 May (11) Memphis (GeP), ties previous late date in west Tenn. **Ross's Goose:** 13 Mar (6) Phillipy; 18 Mar (1) Black Bayou WMA (WGC). **American Black Duck:** 28 May (1 m) Gr. River Rd. & Hwy 103, Dyer Co (WGC), late west Tenn. **Cinnamon Teal:** 18 Mar / 2 Apr (1 m) Black Bayou WMA (WGC). **Gadwall:** 28 May (2 m) Black Bayou WMA (WGC), late west Tenn. **Eurasian Wigeon:** 6 Apr (1) Black Bayou WMA (WGC, Nancy Moore). **American Wigeon:** 28 May (pair) Black Bayou WMA (WGC), late west Tenn. **Northern Shoveler:** 17 May (1 ad, 8 yg) EARTH Complex (MTOS), first confirmed

breeding in Tenn., ad. shovelers have been observed at this site during the summer months since 1994. **Greater Scaup:** 2 Apr (2) Samburg, Obion Co; 21 Apr (7) Kirby Pocket, Obion Co (WGC).

Osprey - Sora: **Osprey:** 1 Mar (1) Reelfoot L. (WGC), ers;pairs were seen at 9 nests at Reelfoot L. SP (David Hagar, OKM). **Mississippi Kite:** 1 Mar (1) Memphis (OKM), ers; 100+ noted on President's Island in mid May (MAG, JRW). The re-introduction program that began 10 years ago has been very successful; kites have been released in Shelby, Fayette, Tipton, Lauderdale, Lake, Haywood, & Henry Cos. **Bald Eagle:** nest with 3 yg at Lake Isom, Lake Co (WGC); 7 nests with a total of 13 yg at Reelfoot L. SP (David Hagar, OKM); a first nesting record was established for Dyer Co (WGC). **SWAINSON'S HAWK:** 25 Apr (1) w of Air Park, Reelfoot L. (MAG), pending TBRC. **Golden Eagle:** 4 Mar (1 ad) Black Bayou WMA (WGC). **Peregrine Falcon:** 1 Mar (1) Wolf R. WMA (JAZ); 12 Apr (1) Dyer Co ; 21 Apr (1) Black Bayou WMA; 5 May (1) Lake Co (WGC); 8 May (1) EARTH Complex (Lillian Durrand). **Virginia Rail:** 1 Apr (2, 1 dead) Long Point (WGC); 11-31 May (1 ad, 1 yg) w Fayette Co (Peggy Gaboury), first west Tenn. breeding record; 17 May (1) EARTH Complex (CHB, MTOS). **Sora:** 1-2 Apr (1) Long Point (WGC); 1 Apr-24 May (8 max) EARTH Complex (CHB, VBR, MGW, MTOS); 7/25 Apr (5) Black Bayou WMA (WGC, MAG); 3 May (1) Lichterman Nature Center, Memphis (Robert Ilardi); 9 May (1) Memphis (MTOS); 14 May (1) Phillipy (WGC).

Plover - Tern: **American Golden-Plover:** 24 Apr (325) Island 13 road, Lake Co (WGC). **Black-necked Stilt:** 1 Apr - 17 May (26 max) EARTH Complex (VBR, MTOS); 5 Apr - 20 May (25 max) n Memphis (LCC, MaH); 20-26 Apr (3) Mud L ; 4-5 May (pair) Black Bayou WMA ; 7-19 May (pair) Levee Rd., Lake Co; 14 May (2) Dyer Co (WGC). **Greater Yellowlegs:** 21 Mar / 19 Apr (28 max) Eagle L (VBR, JAZ, LVZ); 25 Mar (37) Shelby Forest SP (CHB, SCF, SSL, VBR, BHW); 7 Apr (84) Lake Co; 10 Apr (50) Whites L.; 11 Apr (74) Black Bayou WMA (WGC); 18 Apr (23) Lower Hatchie NWR, Lauderdale Co (MTOS). **Lesser Yellowlegs:** 7/19 Apr (42) Eagle L (WRP, JAZ, LVZ); 11 Apr (271) EARTH Complex (JAZ, LVZ); 11/21 Apr (200) Long Point (WGC); 10/16 May (30) Ed Davis Fish Farm, Gibson Co (MAG). **Marbled Godwit:** 26 May (1) Shelby Farms (David Young). **Ruddy Turnstone:** 18 May (28) Hwy 79 & Gr River Rd., Lake Co (WGC), state high count. **Western Sandpiper:** 10 May (12) Ed Davis Fish Farm, Gibson Co (MAG). **White-rumped Sandpiper:** 2-31 May (29 max) Shelby Farms (CHB, BTP, FCP, WRP, VBR, David Young, MGW); 10-11 May (36 max) Ed Davis Fish Farm, Gibson Co (MAG); 13 May (18) Gr River Rd., Lake Co; 24 May (2) Black Bayou WMA; 25 May (4) Gr River Rd., Dyer Co (WGC). **Baird's Sandpiper:** 6 Apr (1) Shelby Farms (MLG, VBR); 10-11 May (3) Ed Davis Fish Farm, Gibson Co (MAG); 24 May (1) Black Bayou WMA (WGC). **Pectoral Sandpiper:** 13/24 Mar (150 max) Black Bayou WMA (WGC); 1 Apr (269 max) EARTH Complex (VBR, JAZ, LVZ, MTOS); 10 Apr (90+) Whites L; 11 Apr (100+) Long Point (WGC). **Short-billed Dowitcher:** 26 Apr (5) Shelby Farms

(VBR, WRP); 10 May (2) Ed Davis Fish Farm, Gibson Co (MAG). **Long-billed Dowitcher:** 10 May (17) Ed Davis Fish Farm, Gibson Co (MAG). **Dowitcher sp.:** 1 Apr (1) EARTH Complex (VBR); 12 Apr (3) Whites L; 16 Apr - 8 May (10) Black Bayou WMA ; 7 May (3) Lake Co (WGC); 2-13 May (15 max) Shelby Farms (WRP). **Common Snipe:** 27 Mar / 6 Apr (169 max) Black Bayou WMA (WGC). **Wilson's Phalarope:** 6 Apr / 30 May (1) Shelby Farms (MLG, VBR, WRP); 11/19 Apr (2) EARTH Complex (VBR, LVZ, JAZ). **Laughing Gull:** 18 May (1) Shelby Farms (CHB, VBR). **Franklin's Gull:** 7 May (1 ad) Island 13 road, Lake Co (WGC). **ICELAND GULL:** 7 Mar (1, first winter plumage) Lick Creek WMA, Tenn. R., Benton Co (KAC, MAG, LPH, CAS, DDP), 2nd state record pending TBRC. **Forster's Tern:** 7 Mar (5) Lick Creek WMA, Benton Co (KAC, MAG, CAS), early state.

Dove - Swallow: **WHITE-WINGED DOVE:** 25 Apr (1) Overton Park, Memphis (GeP), first state record pending TBRC. ***Streptopelia* sp.:** 28 May (1) Jackson (Carla Daily). **Barn Owl:** 1 Mar (1) Wolf R. WMA (BTP, FCP); 7 Mar (1) se of Covington, Tipton Co (DDP); 17 Apr (2 ad) removed from fireplace, Oakland, Fayette Co; 22 Apr (nest, 2 yg) s Memphis; 4 May (nest, yg) e Memphis (OKM). **Short-eared Owl:** 1 Mar - 1 Apr (7-1) Wolf R. WMA (MTOS, SNM, VBR, MGW); 7 Mar (1) Hwy 14 n of Hwy 179, Tipton Co (DDP). **Red-headed Woodpecker:** 15 May (1) mid-town Memphis (LCC, MaH). **Olive-sided Flycatcher:** 9 May (3) Shelby Forest SP (MTOS); 24 May (1) Chickasaw NWR & (1) Key Corner, both Lauderdale Co (MAG, MJW, JRW). **Yellow-bellied Flycatcher:** 8 May (1) Tennemo Levee, Dyer Co (MAG). **Willow Flycatcher:** 5 May (1) Tennemo Levee, Dyer Co (MAG). **Least Flycatcher:** 6 May (1) Shelby Forest SP (DDP, MTOS); 9 May (1) Memphis (MTOS). **Western Kingbird:** 23 May (1) Burlison, Tipton Co (MAG, LPH et al.). **Scissor-tailed Flycatcher:** 11/15 May (1) e Memphis (Fredabeth Avant, GeP); 24 May (pair) Crutcher L., Lauderdale Co (MAG, MJW, JRW). **Tree Swallow:** 13 Mar (1) Shelby Farms (VBR), ers. **Bank Swallow:** 12 Apr (7) Memphis Harbor (LCC, MaH); 26 Apr (100+) Presidents Island (Lillian Durrand); 23 May (300+) colony at Fulton, Lauderdale Co (MAG et al.); 25 May (small colony) Heloise, Dyer Co (WGC). **Cliff Swallow:** 21 Mar (1) Memphis (CHB, Gaynell Perry, VBR), ers; 7 Apr (12) Eagle L (JAZ, LVZ); 7 May (nests, not counted) Hwy 155 & Hwy 182, Dyer Co (WGC).

Crow - Siskin: **Fish Crow:** 24 Mar (52) Memphis (SNM); individual sightings also reported from Shelby, Lauderdale & Lake Cos. **Brown Creeper:** 9 May (1) e Shelby Co (BTP, FCP), lrs. **Bewick's Wren:** 17 May (2) Shelby Forest SP (Charles McCrary). **House Wren:** 19/26 Apr (1) Shelby Farms (VBR, RWP, WRP); 25 Apr (1) Walnut Log, Obion Co (MAG); 1-31 May (2) Humboldt, Gibson Co (MAG). **Sedge Wren:** 2 May (1) Shelby Farms (WRP). **Marsh Wren:** 7 May (1) Black Bayou WMA (WGC). **American Pipit:** 25 Apr (50+) Dyer Co (MAG). **Cape May Warbler:** 3 May (1 m) Memphis (CHB et al.). **Cerulean Warbler:** 17 May (25) Shelby Forest SP (MTOS). **Swainson's War-**

bler: 6 Apr (1) Shelby Forest SP (MLG, VBR), early west Tenn.; 26 Apr - 17 May (9 max) Shelby Forest SP (WRP, RWP, VBR, MTOS); 24 May (1) Chickasaw NWR & (1) Porter's Gap, both Lauderdale Co (MAG, MJW). **American Redstart:** 6 Apr (1) Shelby Forest SP (DDP), early west Tenn. **Painted Bunting:** 28 Apr - 31 May (4) Presidents Island (MTOS); 17 May (2) EARTH Complex (MTOS); 23 May (1) Randolph, Tipton Co (MAG). **Grasshopper Sparrow:** 10 May (1) Shelby Farms (SNM, N. P. McWhirter). **Henslow's Sparrow:** 16-26 May (1) Weakley Co (LPH). **LeConte's Sparrow:** 21 Apr - 5 May (1) Black Bayou WMA (WGC et al.). **Rusty Blackbird:** 16 May (1) Memphis (GeP, FCP, BTP), late west Tenn. **Pine Siskin:** 16/20 Apr (1) Humboldt, Gibson Co (MAG).

Locations: Black Bayou WMA - in Lake Co; Eagle L. - in Shelby Co; EARTH Complex - in Shelby Co; Long Point - part of Reelfoot NWR, Lake Co; Mud L. - near Ridgely, Lake Co; Phillipy - in Lake Co; Presidents Island - in Shelby Co; Shelby Farms - in Shelby Co; Shelby Forest SP - in Shelby Co; White's L.- in Dyer Co; Wolf R. WMA - in Fayette Co.

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HIGHLAND RIM AND BASIN REGION -- Weather for the spring quarter in Nashville was variable. Temperatures for the first two months were near normal, while May was 4 degrees warmer than average. Rainfall fluctuated monthly, but for the season as a whole was near normal.

For much of the South, including this region, spring 1998 was the coming out party for the 13-year cicadas. From the birds' point of view the cicadas' timing was near perfect, and the insects provided a huge banquet for a wide variety of birds. One observer (SJS) found "an especially strong showing" of the cicadas in Macon and Smith Counties by late May. A sample of birds seen feasting on the cicadas includes Northern Cardinal, Carolina Chickadee, Red-eyed Vireo, Louisiana Waterthrush, and Connecticut Warbler.

The immature Calliope Hummingbird (first state record), banded by the Sargents in December in an east Nashville yard, continued to be seen sporadically in the spring. Numbers peaked for neotropical migrants during the first two weeks of May. A survey for Cerulean Warblers at Center Hill Lake turned up good numbers. Henslow's Sparrows appeared to be on the upswing, at least locally; additional birds were discovered at Fort Campbell. Interestingly, most of the sites on the base were surveyed last year without finding any of the sparrows. It appears that Army management practices both at Fort Campbell and AEDC have created the appropriate habitat for the sparrows.

Grebe - Tern: **Horned Grebe:** 27 Mar (265) Center Hill L., DeKalb Co (SJS), 2 birds in alternate plumage seen displaying (i.e., giving "penguin dance"). **Double-crested Cormorant:** 16 Apr (18) Putnam Co (SJS); 26

Apr (50) Radnor L (PDC, JKS, MAZ), unusually large number there. **American Bittern:** 4 Apr (1) McMinnville, Warren Co (Doug Malone); 12 Apr (1) Harpeth R., Bellevue (BBF, FCF); 21 Apr (1) Penn. Bend (MLM). **Great Blue Heron:** 4 Apr (1 on nest) McMinnville, Warren Co (Doug Malone). **Snowy Egret:** 28 Apr (1) Putnam Co (SJS). **Cattle Egret:** 15 Apr (50 in rookery) Old Hickory L (CAS); 28 Apr (1) Putnam Co (SJS), 2nd Co record; 30 May (2) Hwy 109, Sumner Co (Lee Kramer). **Green Heron:** 3 Apr (1) Vanderbilt U., Nash. (CAS), ers. **Yellow-crowned Night-Heron:** 27 Apr (1 ad) Putnam Co (SJS). **Blue-winged Teal:** 10 Apr (28) Warren Co (SNM); 22 May (1 m) Putnam Co (SJS), lrs. **Surf Scoter:** 6 Apr (2 m) Radnor L (HKC). **Red-breasted Merganser:** 9 Mar (5) Old Hickory L (CAS); 24 Mar / 6 Apr (8/4) Radnor L (HKC, JKS). **Ruddy Duck:** 5 Mar (14) Franklin Reservoir, Williamson Co (Elizabeth O'Connor). **Osprey:** 25 Mar (1) Penn. Bend (MLM); 26 Mar (1) Old Hickory L (Mason Sinclair); ers. **Bald Eagle:** 8 May (1) Dover, Stewart Co (JCR). **Cooper's Hawk:** Apr-Jun (nest, pair composed of ad m & 2nd year f, plus 3 yg) Putnam Co (Winston Walden, SJS). **Broad-winged Hawk:** 1 Apr (1) Radnor L. (Sharon Monroe), ers; 12 Apr (2) Warren Co (SNM). **Peregrine Falcon:** 11 May (1 ad) Rutherford Co (Terry J. Witt), seen capturing a Least Sandpiper from a group of shorebirds in a flooded field. **Sora:** 4 May (1) Tullahoma (Glen Estep). **Sandhill Crane:** 21 Mar (5) Warren Co (SNM); 25 Mar (3) Shelby Bottoms (PDC); 25 Mar / 1 Apr (5/1) Putnam Co (SJS, GKE). **Semipalmated Sandpiper:** 22 May (1) Putnam Co (SJS). **Greater Yellowlegs:** 1 Apr (1) Hillsboro (ER). **Lesser Yellowlegs:** 1 Apr (1) Hillsboro (ER). **White-rumped Sandpiper:** 8 May (3) Cross Creeks NWR, Stewart Co (JCR); 23 May (2) Harpeth R., Bellevue (BBF, FCF). **Long-billed Dowitcher:** 1 May (1) Gallatin Steam Plant, Sumner Co (CAS). **American Woodcock:** 25 Feb (3) Tullahoma (Ruth Luckado). **Bonaparte's Gull:** 9 Mar (50) Old Hickory L (CAS), max. **Ring-billed Gull:** 9 Mar (2000) Old Hickory L (CAS), max. **Forster's Tern:** 14 Apr (1) Putnam Co (SJS); 10 May (1) Radnor L (FCF, PDC, CAS et al.).

Cuckoo - Waxwing: **Black-billed Cuckoo:** 13 May (1) Penn. Bend (MLM). **Whip-poor-will:** 1 Apr (1) Williamson Co (Rita Venable, Nancy Garden), ers. **Chimney Swift:** 21 Mar (1) Cheatham Co (Gilbert Foster), ers. **Ruby-throated Hummingbird:** 30 Mar (1) Tullahoma (Max Lamont), ers. **CALLIOPE HUMMINGBIRD:** 13-21 Mar, 1 Apr (1 im f) Nash (Evelyn & Ed Wright, Ron Hoff). **Yellow-bellied Sapsucker:** 11 Apr (1) Davidson Co (Richard Connors), lrs. **Least Flycatcher:** 9-13 May (1) Radnor L (CAS, FCF, PDC et al.). **Scissor-tailed Flycatcher:** 17 May (1) Bedford Co (Melissa Turrentine). **Purple Martin:** 7 Mar (1) Penn. Bend (MLM), ers. **Tree Swallow:** 6 Mar (1) Putnam Co (SJS), ers there; 10 Apr (105) Warren Co (SNM). **Northern Rough-winged Swallow:** 18 Mar (2) Harpeth R, Bellevue (BBF, FCF), ers; a bird returned to a yard in Clarksville, Montgomery Co, for the 4th year to nest in a dryer duct

(Michael O'Mallory). **Winter Wren:** 7 Apr (1) Nash (Jan Alexander), lrs. **Bewick's Wren:** 31 May (1) Rutherford Co (CAS, HKC). **Sedge Wren:** 2 May (5) Shelby Bottoms (CAS). **Blue-gray Gnatcatcher:** 24 Mar (1) Radnor L (MLM), ers. **Veery:** 6 May (6) Radnor L (PDC), max. **Cedar Waxwing:** 16 May (150) Warren Co (SNM).

Warbler - Siskin: **Golden-winged Warbler:** 1 May (1) Radnor L (PDC, FCF). **Orange-crowned Warbler:** 4 May (1) Radnor L (FCF), lrs. **Cape May Warbler:** 30 Apr - 3 May (1-2) Hillsboro (ER); 7 May (2) Stewart Co (JCR); 11 May (1) Penn Bend (MLM). **Black-throated Blue Warbler:** 7 May (1) Radnor L (CAS, HKC). **Yellow-rumped Warbler:** 4 Apr (500) Radnor L (HKC), max; 13 May (1) Radnor L (CAS), lrs. **Yellow-throated Warbler:** 25 Mar (1) Radnor L (John Froeschauer), ers. **Prairie Warbler:** 8 Apr (1) Putnam Co (SJS), ers. **Palm Warbler:** 27 Apr (16+) Shelby Bottoms (PDC), max. **Blackpoll Warbler:** 29 May (1) Nash (CAS), lrs. **Cerulean Warbler:** 16-17 May (49 m) Center Hill L, DeKalb Co (MJW), result of a 13.5 hr search by boat & car to census this declining species. **Black-and-white Warbler:** 23 Mar (1) Nash (Jan Maynard), ers. **Prothonotary Warbler:** 20 Apr (2) Putnam Co (SJS, GKE). **Louisiana Waterthrush:** 18 Mar (1) South Harpeth Valley, Williamson Co (MJW), ers. **Connecticut Warbler:** 16/19/23 May (2/1/1) Radnor L (PDC, MAZ, FCF); 16 May (1) AEDC, Coffee Co (CAS, FCF, NTOS). **Mourning Warbler:** 18 May (2) Radnor L (PDC, FCF). **Common Yellowthroat:** 5 Apr (1) Putnam Co (Amy Mercer), ers. **Scarlet Tanager:** 6 Apr (1) Radnor L (Sharon Monroe), ers. **Dickcissel:** 23 Mar (2) Nash (Linda V. Kelley). **Bachman's Sparrow:** 16 May (1) AEDC, Coffee Co (CAS, FCF, NTOS). **Vesper Sparrow:** 26 Mar (6) Shelby Bottoms (PDC, Susan Hollyday). **Grasshopper Sparrow:** 15 May (4) Warren Co (SNM). **Henslow's Sparrow:** 14 May (2) Old Hwy 18, Stewart Co (CAS); 16 May (3) AEDC, Coffee Co (CAS, FCF, NTOS); May (found at 2 sites) Fort Campbell, Stewart Co (Michael Roedel). **Nelson's Sharp-tailed Sparrow:** 15 May (1) Warren Co (SNM). **Lincoln's Sparrow:** 23 Apr (1) Shelby Bottoms (PDC). **Yellow-headed Blackbird:** (1 m) Dickson Co (CAS). **Rusty Blackbird:** 3 May (1) Radnor L (FCF, NTOS), lrs. **Purple Finch:** a few scattered reports in Mar & early Apr; 10 May (2) Radnor L (CAS, NTOS), lrs. **Pine Siskin:** 3 Mar (8) Winchester, Franklin Co (Joyce Adams).

Locations: Bellevue - in Davidson Co; Hillsboro - in Coffee Co; Nash - Nashville; Old Hickory L - in Sumner & Davidson Cos; Penn. Bend - Pennington Bend, Davidson Co; Radnor L - in Davidson Co; Shelby Bottoms - in Davidson Co; Tullahoma - in Coffee Co.

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CUMBERLAND PLATEAU / RIDGE AND VALLEY REGION: Following a rather mild winter, early spring continued mild. A few very early migrants in

February were reported in the winter SEASON. April and May were slightly cooler than normal. Rainfall for March through mid-May was significantly above average. This combination of cool and wet during the expected peak of migration seemed to delay activity a bit.

Overall, a good selection of migrants were reported. A Swainson's Hawk was most unexpected. Also notable were several Glossy Ibises, a Purple Gallinule, and a returning Scissor-tailed Flycatcher.

Loon - Merganser: **Common Loon:** 19 Apr (41 flying n) Soddy Mtn (WGH). **Double-crested Cormorant:** 3 Apr (30) Fort Loudoun Dam, Loudon Co (Wesley K. James). **American Bittern:** 27 Apr - 9 May (1-3) Bra Lev (KAC, LAW); 4 May (1) Aus Spr (Dan Huffine). **Least Bittern:** 21 Apr - 17 May (1-4) Bra Lev (KAC, LAW). **Great Blue Heron:** 1 Mar (11 nests) Cherokee Dam, Grainger Co side (KDE); 25 Apr (1 carrying stick) N. White Oak Creek, near Rugby, Scott or Morgan Co (BHS). **Great Egret:** 25 Apr (2) Aus Spr (FJA et al.). **Snowy Egret:** 8 May (1) New Mkt (KDE). **Little Blue Heron:** 9 May (2 im) Hmlt Co (Danny Gaddy). **Black-crowned Night-Heron:** 5 Apr (30) Cherokee Dam, Grainger / Jefferson Cos (KDE); 1 May (1) Kinser Park, Greene Co (ACL, DHM); 9 May (1 im) Bra Lev (KAC). **Yellow-crowned Night-Heron:** 26 Apr (pair nesting) Knoxville (Tony Headrick, Boyd Sharp, Joel Keebler). **Glossy Ibis:** 24 Apr (1) UT Plant Science Farm, Knox Co (DJT); 4 May (1) Bra Lev (KAC et al.); 27 May (1) New Mkt (KDE). ***Plegadis* sp.:** 13 May (7 flying over) e Hmlt Co (KAC). **Greater White-fronted Goose:** 28 Mar (1) Knox Co (KDE, DJT, RDT). **Blue-winged Teal:** 24 May (2) Wash Co (RLK), lrs. **Gadwall:** 9 May (1) Hmlt Co (David Vogt), lrs. **Black Scoter:** 2 f present since Dec were last seen 12 Mar at Chickamauga Dam, Hmlt Co (Terry Witt). **Red-breasted Merganser:** 9 May (4) Chickamauga L, Hmlt Co (Dennis Harris), lrs.

Osprey - Gallinule: **Osprey:** 1 Mar (1 at nest) Kingston, Roane Co (Michael Welch), ers. **Bald Eagle:** nest below Nickajack Dam, Marion Co, produced 1 yg (fide KAC). **Sharp-shinned Hawk:** 24 Apr (2) Big South Fork (SJS); 26 Apr (1) Morgan Co (BHS, SJS). **Cooper's Hawk:** 9+ records in Greene Co (ACL, DHM). **Red-shouldered Hawk:** 6 May / 1 Jun (2 nestlings / 1 fledgling) Norris, Anderson Co (JDJ, RDT). **SWAINSON'S HAWK:** 11 Apr (1 light morph) Soddy Mtn (WGH), pending TBRC. **Merlin:** 9 May (1) Hmlt Co (Roi & Debbie Shannon). **Peregrine Falcon:** pair present at Chattanooga nest site (Harold Sharp et al.). **Virginia Rail:** 27 Apr (3) Bra Lev (KAC, LAW Janice Chadwell, Clyde Blum). **Sora:** 2 Apr (1) Bowmantown, Wash Co (FJA); 4 Apr - 9 May (max 25 on 21 Apr) Bra Lev (KAC et al.); 25 Apr (1) Aus Spr (FJA et al); 25 Apr (2) Ktn Stm Pl (DJT, Susan Swindell); 26 Apr (1) Knox Co (KTOS). **Common Moorhen:** 16 May (1) Bra Lev (LAW). **Purple Gallinule:** 18 Apr (1) Bra Lev (LAW).

TABLE 1: Spring 1998 Hawkwatch Totals from Soddy Mtn. (WGH et al.)
27 Feb - 27 Apr, 14 days

Black Vulture -	18	Red-shouldered Hawk-	1
Turkey Vulture-	122	Broad-winged Hawk-	196
Osprey-	18	Swainson's Hawk-	1
Bald Eagle-	2	Red-tailed Hawk-	48
Northern Harrier-	3	American Kestrel-	4
Sharp-shinned Hawk-	33	unkown accipiter-	1
Cooper's Hawk-	13	unknown buteo-	4

Total: 140 vultures & 324 hawks = 464

Plover - Sapsucker: **Black-bellied Plover:** 26 May (1) New Mkt (KDE). **Semipalmated Plover:** 12-26 May (20-6) New Mkt (KDE), max. **Greater Yellowlegs:** 7 May (17) New Mkt (KDE), max. **Lesser Yellowlegs:** 30 Apr (50) New Mkt (KDE); 11 May (50) Ktn Stm Pl (FLB); max. **Willet:** 9 May (1) Hmlt Co (WGH). **Upland Sandpiper:** 11-13 Apr (2-1) UT Plant Science Farm, Knox Co (DJT, KDE). **Semipalmated Sandpiper:** 28 May (43) New Mkt (KDE), max. **Least Sandpiper:** 14 May (30) New Mkt (KDE), max. **White-rumped Sandpiper:** 4 May (1) Bra Lev (KAC); 4-25 May (1-14) New Mkt (KDE); 10-11 May (5-7) Ktn Stm Pl (FLB). **Dunlin:** 10 May (8) Ktn Stm Pl (FLB); 11 May (10) New Mkt (KDE). **Stilt Sandpiper:** 8-9 May (2) New Mkt (KDE); 24 May (4) Wash Co (RLK). **Short-billed Dowitcher:** 27 Apr (11) Bra Lev (KAC, LAW); 13 May (21) New Mkt (KDE). **American Woodcock:** 1 May (1) Cumberland Co (BHS, SJS). **Wilson's Phalarope:** 9 May (1) Blount Co (Jean Alexander, Jean Friley, DJT, Ron Hoff, Dollyann Myers); 10 May (1) Ktn Stm Pl (FLB); 11-13 May (2) New Mkt (KDE). **Caspian Tern:** 18 Apr (4) Tennessee R., Marion Co (WGH); 20 Apr (2) Hmlt Co (KAC); 25 Apr / 10-11 May (13 / 3-5) Ktn Stm Pl (DJT / FLB). **Forster's Tern:** 13 May (25) Hmlt Co (WGH). **Black-billed Cuckoo:** 9 May (1) Hmlt Co (Clyde Blum). **Whip-poor-will:**29 Mar (1) Knox Co (Susan Ford), ers. **Yellow-bellied Sapsucker:** 14 May (1) Blount Co (CJW, JRD), lrs.

Flycatcher - Shrike: **Olive-sided Flycatcher:** 4 Jun (1) Big South Fork (SJS). **Yellow-bellied Flycatcher:** 23-27 May (1) Knoxville (FLB), ID by call. **Acadian Flycatcher:** 28 May (41) Big South Fork (SJS), max. **Willow Flycatcher:** 14-17 May (2-5) Alcoa, Blount Co (CJW); 15 May (6) Freel's Bend, Anderson Co (JDJ, RDT). **Scissor-tailed Flycatcher:** 30 May (1) Charleston, Bradley Co (Jim & Cynthia Wilkerson), where a pair nested last year. **Tree Swallow:** 25 Apr (250) Eagle Bend Fish Hatchery, Anderson Co (JDJ), max; 16 May (pair at nestbox) below Dale Hollow Dam, Clay Co (SJS, Terry Campbell). **Horned Lark:** 1 Mar (40) Greene Co (ACL, DHM). **Blue Jay:** 25 Apr (763), 26 Apr (941), 27 Apr (440) Soddy Mtn (WGH), significant migratory flight. **Red-breasted Nuthatch:** 29 Apr (2) Hmlt Co (LAW); 3 May (1) Greene Co (ACL, DHM); lrs. **Sedge Wren:** 4 May (1) Bra Lev (KAC); 9 May (1) Hmlt Co (John

Henderson); 22 May (1) Eastern State WMA, Knox Co (CJW, JRD). **Marsh Wren:** 4 May (1) Bra Lev (KAC). **Ruby-crowned Kinglet:** 12 May (1) Greene Co (ACL, DHM), lrs. **Swainson's Thrush:** 28 May (1) Knoxville (FLB), lrs. **Wood Thrush:** 28 May (35) Big South Fork (SJS), max. **American Robin:** 7 Apr (1 fledgling) Knoxville (Andy Jones), early. **American Pipit:** 22 Mar (600) Tri-Cities Airport, Sullivan Co (JWC), massive concentration. **Loggerhead Shrike:** 16 Mar (pair) New Mkt (KDE); 14 Apr - 17 May (pair) Greene Co (ACL, DHM).

Vireo - Grosbeak: **Red-eyed Vireo:** 28 May (171) Big South Fork (SJS), max. **Blue-winged Warbler:** 12 Apr - 24 May (2 singing) Roane Co (JDJ, Harriet Joslin). **Golden-winged Warbler:** 16 May (2) Cross Mtn (KTOS). **Orange-crowned Warbler:** 4 May (1) Hmlt Co (KAC), lrs. **Magnolia Warbler:** 26 May (1) Knoxville (FLB), lrs. **Black-throated Blue Warbler:** 13 Apr / 4 May (1 / 3) Hmlt Co (KAC). **Black-throated Green Warbler:** 28 May (67) Big South Fork (SJS), max. **Cerulean Warbler:** 16 May (30) Cross Mtn (KTOS). **Black-and-white Warbler:** 2 May (34) Big South Fork (SJS), max. **American Redstart:** 16 May (50) Cross Mtn (KTOS), max. **Prothonotary Warbler:** 12 Apr - 16 May (pair) Roane Co (JDJ, Harriet Joslin); 16 May (2) below Dale Hollow Dam, Clay Co. (SJS, Terry Campbell). **Swainson's Warbler:** 26 Apr (3) Clear Creek, Morgan Co (BHS, SJS); 4 May (1) Booker T. Washington SP, Hmlt Co (KAC); 14 May (1) Reflection Riding, Hmlt Co (LAW); 23 May (3) Windrock Mtn, Anderson Co (DJT); 28 May (1) Angel Falls, Big South Fork (SJS). **Kentucky Warbler:** 16 May (30) Cross Mtn (KTOS), max. **Connecticut Warbler:** 17 May (1) Hmlt Co (KAC). **Mourning Warbler:** 22 May (2) Eastern State WMA, Knox Co (CJW, JRD). **Wilson's Warbler:** 9 / 11 May (1) Hmlt Co (Hayden Wilson, Bonnie Johnson, Janice Chadwell / KAC); 16 May (1) Anderson Co (RDT). **Canada Warbler:** 17 May (1) Greene Co (ACL, DHM). **Scarlet Tanager:** 9 Apr (1) Knoxville (CJW), ers. **Indigo Bunting:** 1 Apr (1) Knoxville (CJW, Tom Purucker), ers. **Dickcissel:** 2 May (1) Greene Co (ACL, DHM); 12 May (1) New Mkt (KDE); 13 May (3+) Limestone, Wash Co (RLK). **Lincoln's Sparrow:** 9 May (1) Hmlt Co (David Vogt). **Purple Finch:** 6 Apr (36) Hmlt Co (LAW), max. **Pine Siskin:** 1-3 Apr / 15 May (5) Norris, Anderson (JDJ, RDT); 14 Apr (2) Hmlt Co (LAW); 26 Apr (5) Greene Co (ACL, DHM). **Evening Grosbeak:** 25-27 Apr (2) Knox Co (CJW); 11 May (1) Bledsoe Co (Roi & Debbie Shannon), lrs.

Locations: Aus Spr - Austin Springs, Washington Co; Big South Fork - in Scott Co; Bra Lev - Brainerd Levee, Hamilton Co; Cross Mtn - in Campbell Co; Hmlt Co- Hamilton Co; Ktn Stm Pl- Kingston Steam Plant, Roane Co; New Mkt- New Market, Jefferson Co; Soddy Mtn - in Hamilton Co; Wash Co- Washington Co.

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EASTERN MOUNTAIN REGION: Peregrine Falcons nested earlier than last year at the Alum Cave nest site in the Great Smoky Mountains National Park.

A possible new Peregrine nest site was found in Unicoi County. This is certainly encouraging news about this endangered species (soon to be de-listed).

A banding project in Holston Valley of eastern Sullivan County produced some late migrants. Pine Siskins remained through the period and into summer at Shady Valley in Johnson County.

Grebe - Cuckoo: **Pied-billed Grebe:** 1 Mar (60) S. Hol. L. (JWC), max. **Eared Grebe:** 1 Mar - 28 Apr (4 - 5) S Hol L (JWC et al.). **Double-crested Cormorant:** 22 Mar (1) Watauga R, Carter Co (BKS); 12 Apr (5) S Hol L (JWC). **Snowy Egret:** 20 May (1) Watauga R, Carter Co (Frank Ward). **Green Heron:** 20 Apr (2 nests, 1 w/eggs) S Hol L (JWC), early. **Yellow-crowned Night-Heron:** 17 May (1) Elizabethton (GOW). **Greater Scaup:** 16 Mar (6) Weaver Pike Pond, Sullivan County (LCM, JLS, Ron Carrico). **Common Merganser:** 6 Apr (4) S Hol L (JWC). **Red-breasted Merganser:** 6 Apr (17) S Hol L (James Brooks). **Osprey:** 30 May (1) S Hol L (Joe McGuiness). **Bald Eagle:** 2 Apr (1) Nolichucky R, Unicoi Co (Joe McGuiness). **Northern Harrier:** 6 May (1) Elizabethton (BKS, Ruth Baker), lrs. **Red-shouldered Hawk:** 26 Mar (1) e Sullivan Co (JLS). **Broad-winged Hawk:** 7 Apr (1) Sycamore Shoals SP, Carter Co (Rob Biller), ers. **Peregrine Falcon:** 30 Mar (1) Alum Cave Trail, GSMNP (Bill Sullivan), apparently incubating at the site where they nested last year; 28 Apr (pair, possible nest) Unicoi Co (FJA, Pete Wyatt, Michael Welch), male carrying food to female. **Sora:** 17 Apr (1 dead on road) near Sam's Gap, Unicoi Co (Mark Churchill). **Western Sandpiper:** 23 Apr (1) Great Lakes Pond, Carter Co (BKS). **Bonaparte's Gull:** 12 Apr (37) S Hol L (JWC), max. **Black-billed Cuckoo:** 20 May (1) Elizabethton (Howard Langridge).

Swallow - Grosbeak: **Barn Swallow:** 16 Mar (1) Sullivan County (RPL), ers. **Common Raven:** 7 Mar (pair) town of Watauga, Carter Co (AJT), at previous nest site; 28 Mar (pair, nest) Devil's Looking Glass, Unicoi Co (AJT), also previously used. **Swainson's Thrush:** 23 May (1 banded) Holston Valley (RPL), lrs. **Blue-headed Vireo:** 24 Mar (several) Cherokee National Forest, Monroe Co (AJT), ers. **Blue-winged Warbler:** 5 May (1) Sycamore Shoals SP, Carter Co (Rob Biller). **Magnolia Warbler:** 23 May (1 banded) Holston Vallet (RPL), lrs. **Cape May Warbler:** 10 May (1) Shady Valley (JLS). **Blackpoll Warbler:** 23 May (1 banded) Holston Valley (RPL), lrs. **Summer Tanager:** 28 Apr (1) Carter Co (GOW). **Grasshopper Sparrow:** 3 May (1) S Hol L (JWC). **Orchard Oriole:** 5 Apr (1) Elizabethton (GOW), ers. **Purple Finch:** 4-12 Apr (96 banded) Holston Valley (RPL), a constant supply of unbanded birds indicated a rather large population; they were rather sparse elsewhere. **Red Crossbill:** 14 Mar (2) Parkersville, Polk Co (DJT et al.); 24 Mar (2) Big Frog Mtn, Polk Co (DJT et al.).

Pine Siskin: thru period (5-20) Shady Valley (JLS); 3 May (250) Roan Mtn (GOW). **Evening Grosbeak:** 28 Mar / 18 Apr (25) Shady Valley (JLS).

Locations: Elizabethton - in Carter Co; GSMNP - Great Smoky Mountains National Park; Holston Valley - in Sullivan Co; Shady Valley - in Johnson Co; S Hol L - South Holston Lake, Sullivan Co.

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